

# HANDS-ON TRAINING

INSTRUCTOR-LED SHORT COURSES  
FOR IT PROFESSIONALS & MANAGERS

**TOP 200+**  
**COURSES**

*SEE INSIDE!*



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Driving Process Change  
with **ACCELERATION**  
**WORKSHOPS**

*See page 2*

Enhance Your Knowledge &  
Skills in **TODAY'S MOST**  
**POPULAR TOPICS!**

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**ENHANCE WORKFORCE**  
**PERFORMANCE** by Aligning  
People, Processes & Technology

*See page 7*

# Message from the CEO

## Driving Process Change with

# ACCELERATION WORKSHOPS



Richard A. Spires, CEO  
Learning Tree International

Having worked in IT management for a couple of decades, I have been frustrated by wanting to improve the way organizations function because it was a struggle to drive sustained change that works. This frustration crosses all elements of IT management, whether it be in the way we develop and execute budgets, plan and manage our projects, implement service management, or even secure our systems. I have found there are typically **three ways IT organizations will go when attempting to drive process improvement:**

### 1. RECRUIT TALENT

While a viable option, it is fraught with risk. Finding individuals that have the expertise, attracting them to your organization, and then relying on them to not only have the expertise in the needed process discipline, but also the leadership skills to drive that process discipline into the organization, can be a tall order.

### 2. HIRE CONSULTANTS

Typically, you can find a consultant or company that has the expertise required. They will study your organization, identify weaknesses, and recommend action plans for improvement. However, I have found that consultants struggle to provide the leadership necessary to drive the change in the organization because they are not part of the organization. Their report can be correct in every aspect, but the results do not measure up to the rhetoric.

### 3. TRAIN THE STAFF

Organizations can rely on their own staff, working to augment their skills with training in the appropriate disciplines. The issue, however, is that without having seen an organization operate properly, training itself will not provide the needed management insight that only comes with real-world experience. The process improvement falls flat, not realizing the objectives that were expected.

Fortunately, there is an approach that has proven to be highly effective in driving sustained and positive process changes that the staff can embrace.

The use of *Acceleration Workshops* combines the best of consulting and training to drive improved outcomes. The basic concept is that an instructor, who is also a true subject matter expert, works with a combination of staff on a unique training and implementation event — employees learn concepts, and then immediately apply those concepts to real-world needs of the organization while the instructor provides guidance and leadership. The output of *Acceleration Workshops* is deliverables that can be used by the organization in supporting the process implementation.

***Continue the conversation with me at:***  
***[Blog.LearningTree.com/Workforce](http://Blog.LearningTree.com/Workforce)***

**To view a client success story and learn more about Acceleration Workshops, see *PAGE 6* or visit [LearningTree.ca/Accelerate](http://LearningTree.ca/Accelerate)**

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## TOP 200+ COURSES IN TODAY'S MOST POPULAR IT & MANAGEMENT TOPICS

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| <b>5 Unique Attendee Benefits</b><br>Complimentary benefits to extend your learning before, during and after your course. | <b>87 Tuition, Savings Plans &amp; Enrolment</b><br>Take advantage of limited-time offers to boost your training budget.   |
| <b>6 Acceleration Workshops</b><br>Increase ROI on each dollar spent with Acceleration Workshops.                         |  |

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Our live, online attendance platform lets you experience the same highly effective, hands-on instructor-led training delivered at our Education Centres — all from the convenience of your home, work or an AnyWare Centre.

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**“ I truly felt that I was part of the class; my instructors engaged with me just like I was in their actual classroom, and performing the hands-on exercises was seamless. ”**

— R. Eldridge, Director, Services Education  
EMC Corporation

## Get Your Training on the Fast Track in *Just 1 Day* with Over 170 **1-DAY** BOOT CAMPS

- Quickly gain new knowledge, skills, and hands-on experience
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- Attend live, online via AnyWare

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# Unique Attendee Benefits

## Before, During and After Your Course

As a participant in Learning Tree's publicly scheduled or on-site courses, you are provided with your own personal **My Learning Tree® Account**, which can be used to access unique benefits to help you preserve your training accomplishments and continue learning back at work.

**“The Computing Sandbox was very easy to access after my course. It allowed me to redo my hands-on exercises, and reinforce what I had learned — on my own time — and at my own pace.**

— J. Schneider, *Computer Specialist*  
U.S. Census Bureau



### COMPLIMENTARY BENEFITS INCLUDE:

- **Talk to an Instructor** about a course or learning path
- **Job-Related Resources**
- **After-Course Instructor Coaching Session** for help and guidance back at work
- **After-Course Computing Sandbox™** for practicing and experimenting with the same software used in your course
- **Course Transcripts & Certificates On-Demand**
- **Supplemental Course Materials**
- **Free Exams** for certifications

...and much more!

**PLUS, Sponsoring Managers and Team Leaders** receive the same My Learning Tree Account benefits, as well as additional benefits to help them plan and manage their team's training!

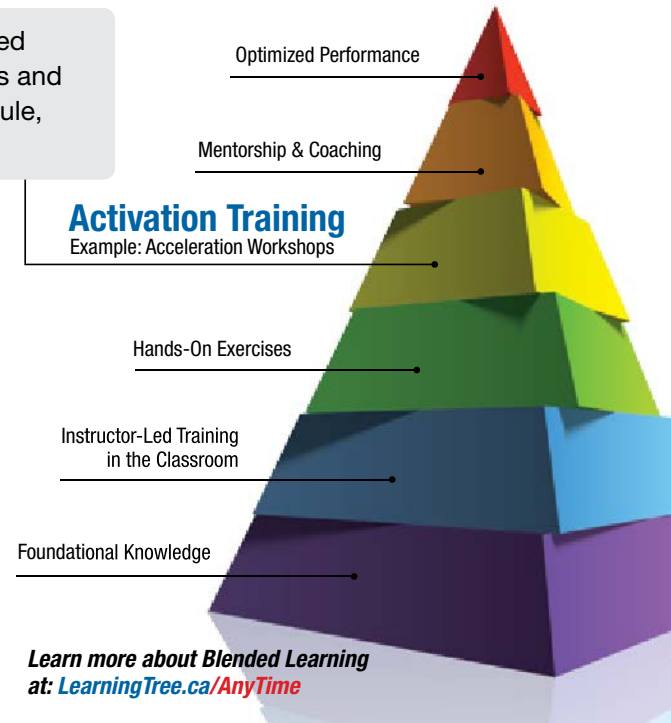
**Learn more at: [LearningTree.ca/Benefits](https://LearningTree.ca/Benefits)**

# Increase ROI on Each Training Dollar Spent with Acceleration Workshops

Let's focus on the **Activation Training** level in our blended learning model, which helps learners on their actual projects and processes with pragmatic support to improve cost, schedule, performance, and customer satisfaction.

## WHAT IS AN ACCELERATION WORKSHOP?

An Acceleration Workshop is a facilitated multi-day session, led by one or more Learning Tree Advisors, for an intact project team. Typically done at the client's facility, the goal is to utilize the Advisor's expertise and real-world experience in order to focus on and move forward the production of specific artifact(s) needed for the project. Depending on the background of the team members, some instructor-led presentations or coaching might be done to ensure all team members have the necessary knowledge as it relates to the artifact(s) being produced. Acceleration Workshops are particularly useful for project management, cyber security, process transformation (such as ITIL or Agile/Scrum), or technology deployments (like SharePoint).



## CASE STUDY

### CHALLENGE: MAJOR PROJECT ACTIVATION

A large healthcare provider was struggling with the complex and multi-faceted efforts of opening a major medical centre.

The 'Activation' phase follows the general construction and is a vital phase to ensure the successful launch of a healthcare facility — hiring people, implementing equipment and technology, and establishing all operational processes to provide effective patient care. These large complex projects — which in many cases exceed \$1 billion in budget — require the collective collaboration from all departments of the healthcare facility.

### SOLUTION: CUSTOM ACCELERATION WORKSHOPS

A custom series of Acceleration Workshops were developed by Learning Tree to immediately assess and implement the relevant project management disciplines, processes, and artifacts required to effectively launch and/or recover these major initiatives. **Workshops offer the following benefits:**

- Development of actual project artifacts – BRD/URD, WBS, Milestone Schedule, Risk Register, Acquisition Strategy, Metrics Dashboard for effective Monitor and Control
- On-the-job coaching of the required competencies to deliver improved performance
- Established formalized project governance
- Improved line-of-sight across project portfolio for senior stakeholders

In one project alone, a **savings of \$3 million** in contract costs were realized.

Learn more at: [LearningTree.ca/Accelerate](https://LearningTree.ca/Accelerate)



# A Holistic Approach to OPTIMIZE YOUR WORKFORCE

## DEFINE

Organizational Structure,  
Processes & Job Roles

Based on your specific needs, our experts will ensure your workforce has a proper framework with well-defined processes and job roles.

### DEFINE Deliverables:

- Interview/engage key business and technical stakeholders
- Define the characteristics of a high-functioning organization
- Analyze and define job roles relating to a Competency Framework

## ASSESS/MAP

Knowledge, Skills &  
Abilities (KSAs)

Using our online skills assessment tool, we will identify any skill gaps, create customized training plans, and align the KSAs of your workforce to your immediate and long-term goals.

### ASSESS/MAP Deliverables:

- Knowledge and role-based skills assessments; skill gap analysis
- Competency-based professional development plans
- Pre- and post-training skills assessment reports

## ENHANCE

Knowledge, Skills &  
Abilities (KSAs)

Our team of dedicated workforce optimization specialists will manage the training, coaching, and mentoring of your staff to ensure your goals are met.

### ENHANCE Deliverables:

Professional development through a variety of modern methodologies:

- **Custom on-site courses/curriculum**
- Instructor-led public courses
- Live, online training via AnyWare™
- Asynchronous training via AnyTime
- Acceleration workshops
- Embedded advisors/facilitation

## IMPLEMENT

Process & Organizational  
Improvements

With the assistance of our elite team of expert advisors and custom acceleration workshops, the newly acquired processes and skills of your workforce will quickly be applied.

### IMPLEMENT Deliverables:

- Project plans to rescue, formalize or accelerate underperforming initiatives
- Establish an environment for implementing and applying best practices
- Improve project facilitation, coordination and reporting to streamline critical decision-making

### Custom Team Training — On-Site at Your Preferred Location

Whether your organization requires a single course or a multi-course curriculum, Learning Tree has the expert instructors, technology and logistical mastery to smoothly handle all aspects of your training events — *whenever and wherever you require.*

**Learn more at: [LearningTree.ca/OnSite](https://LearningTree.ca/OnSite)**

**For a Complimentary Consultation,  
Call 1-800-THE-TREE (843-8733)  
or visit [LearningTree.ca/Workforce](https://LearningTree.ca/Workforce)**

# Agile & Scrum

Visit: [LearningTree.ca/Agile](https://LearningTree.ca/Agile)

AGILE & SCRUM	NUMBER OF DAYS	PAGE
Accelerating Agile Development for Scrum Teams • Course 1812	3	10
Agile Test-Driven Development • Course 1815	3	10
Agile Software Development with Team Foundation Server • Course 1816	4	10
Agile Business Analysis • Course 3511	3	10
Implementing Lean-Agile for Business and Operations • Course 3641	4	11
Agile Project Management with Scrum • Course 918	3	11
Agile Software Development and Modeling • Course 933	4	11
Managing Agile Projects with JIRA Software • Course 3642	4	12

## PROFESSIONAL CERTIFICATIONS

Certified ScrumMaster® • Course 1813	2	9
Certified Scrum Product Owner® • Course 1814	2	9
Lean IT: Achieving Foundation Certification • Course 3630 • <b>NEW!</b>	2	9

## 1-DAY BOOT CAMPS — Live, Online via AnyWare™

Agile Adoption for Managers • Course 4590	<a href="https://LearningTree.ca/4590">LearningTree.ca/4590</a>
Introduction to Scrum • Course 4591	<a href="https://LearningTree.ca/4591">LearningTree.ca/4591</a>
Leading Successful Agile Transformations • Course 4592	<a href="https://LearningTree.ca/4592">LearningTree.ca/4592</a>
Scaling Scrum • Course 4593	<a href="https://LearningTree.ca/4593">LearningTree.ca/4593</a>
Leading Successful Agile Retrospectives • Course 4594	<a href="https://LearningTree.ca/4594">LearningTree.ca/4594</a>
ScrumMaster: Beyond the Basics • Course 4595	<a href="https://LearningTree.ca/4595">LearningTree.ca/4595</a>
Agile Release Management • Course 4597	<a href="https://LearningTree.ca/4597">LearningTree.ca/4597</a>
Effective User Stories • Course 4598	<a href="https://LearningTree.ca/4598">LearningTree.ca/4598</a>
Agile Business Value & Estimating • Course 4599	<a href="https://LearningTree.ca/4599">LearningTree.ca/4599</a>
Lean-Agile: Combining Kanban & Scrum • Course 4870	<a href="https://LearningTree.ca/4870">LearningTree.ca/4870</a>
Recovering a Collapsed Scrum • Course 4872	<a href="https://LearningTree.ca/4872">LearningTree.ca/4872</a>
The Lean Enterprise for Business Technologists • Course 4874	<a href="https://LearningTree.ca/4874">LearningTree.ca/4874</a>
Agile Requirements: The Business Analyst in Scrum • Course 4875	<a href="https://LearningTree.ca/4875">LearningTree.ca/4875</a>
Managing Scrum Projects with Team Foundation Server • Course 4881	<a href="https://LearningTree.ca/4881">LearningTree.ca/4881</a>
eXtreme Programming (XP) with Team Foundation Server • Course 4882	<a href="https://LearningTree.ca/4882">LearningTree.ca/4882</a>

# Software Development

Visit: [LearningTree.ca/SoftwareDev](https://LearningTree.ca/SoftwareDev)

SOFTWARE DEVELOPMENT	NUMBER OF DAYS	PAGE
Project Management for Software Development • Course 340	4	11
Introduction to Software Testing • Course 1830	3	12
User Experience (UX) Design for Successful Software • Course 1802	3	12
User & System Requirements for Successful Software Development • Course 218	4	12
Software Quality Assurance: Implementing Consistent Quality • Course 312	3	13
Software Change, Configuration and Release Management • Course 342	3	13
Service-Oriented Architecture (SOA) Introduction • Course 424	3	13

## PROFESSIONAL CERTIFICATIONS

Preparing for TOGAF® Certification • Course 1803	4	9
ISTQB Certified Tester: Achieving Foundation Certification • Course 316 • <b>NEW!</b>	3	13

## 1-DAY BOOT CAMPS — Live, Online via AnyWare™

Software Project Kickoff: Tools for Success • Course 4873	<a href="https://LearningTree.ca/4873">LearningTree.ca/4873</a>
Effective Software Testing Strategies • Course 4876	<a href="https://LearningTree.ca/4876">LearningTree.ca/4876</a>
Architecting Enterprise Applications • Course 4877	<a href="https://LearningTree.ca/4877">LearningTree.ca/4877</a>
UX Design for Mobile Devices • Course 4878	<a href="https://LearningTree.ca/4878">LearningTree.ca/4878</a>
Introduction to Test-Driven Development • Course 4879	<a href="https://LearningTree.ca/4879">LearningTree.ca/4879</a>
Software QA Essentials • Course 4883	<a href="https://LearningTree.ca/4883">LearningTree.ca/4883</a>
Six Sigma Essentials • Course 4884	<a href="https://LearningTree.ca/4884">LearningTree.ca/4884</a>
DevOps: Technical Essentials • Course 4885	<a href="https://LearningTree.ca/4885">LearningTree.ca/4885</a>
DevOps: Management & Team Essentials • Course 4886	<a href="https://LearningTree.ca/4886">LearningTree.ca/4886</a>



## Certified ScrumMaster®

Course 1813 • 2 Days

### YOU WILL LEARN HOW TO:

- Become a Certified ScrumMaster and servant-leader to your Development Team, your Product Owner and your organization
- Follow Agile principles and Scrum Framework
- Apply effective facilitation for Scrum ceremonies
- Refine your product backlog, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Creating the product vision
- Developing and refining product backlogs
- Estimating and prioritizing user stories
- Contrasting iterative vs. incremental delivery, and more ...

#### TUITION:

Standard **\$2,225**  
GOV **\$1,950**

#### EARN:

PMI PDUs,  
Scrum Alliance SEUs



**SCHEDULE:** Visit [LearningTree.ca/1813](http://LearningTree.ca/1813) for more dates.

July 11-12.....Reston	Sep. 12-13.....Toronto
July 25-26.....Rockville	Sep. 19-20.....Reston
Aug. 8-9.....New York	Oct. 3-4.....New York
Aug. 22-23.....Ottawa	Oct. 17-18.....Reston

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## Certified Scrum Product Owner®

Course 1814 • 2 Days

### YOU WILL LEARN HOW TO:

- Become a Scrum Alliance Certified Scrum Product Owner (CSPO)
- Follow Agile Principles and the Scrum Framework
- Apply effective leadership to ensure measurable product outcomes
- Build and prioritize your business value-driven product backlog, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Creating the product vision
- Developing and refining product backlogs
- Estimating and prioritizing user stories
- Minimizing organizational dependencies, and more ...

#### TUITION:

Standard **\$2,225**  
GOV **\$1,950**

#### EARN:

Scrum Alliance SEUs



**SCHEDULE:** Visit [LearningTree.ca/1814](http://LearningTree.ca/1814) for more dates.

July 18-19.....Reston	Jan. 23-24, 2017.....Reston
Oct. 24-25.....Reston	Apr. 3-4, 2017.....Reston
Nov. 28-Dec. 29.....New York	
Dec. 19-20.....Rockville	

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## Preparing for TOGAF® Certification

Course 1803 • 4 Days

### YOU WILL LEARN HOW TO:

- Prepare for the TOGAF Foundation (Part 1) and Certified (Part 2) examinations
- Identify opportunities for achieving business and IT alignment
- Apply a process for creating architectures through TOGAF's Architecture Development Method
- Create an organization-specific architecture capability, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Taking practice exam quizzes in preparation for the TOGAF exams
- Testing your familiarity with the TOGAF structure and content
- Exploring enterprise architecture concepts in a realistic case study
- Developing a business case for enterprise architecture, and more ...

#### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

**SCHEDULE:** Visit [LearningTree.ca/1803](http://LearningTree.ca/1803) for more dates.

July 26-29.....Rockville	Dec. 19-22.....Ottawa
Aug. 23-26.....Herndon	Jan. 3-6, 2017.....Rockville
Oct. 11-14.....Toronto	Feb. 28-Mar. 3, 2017.....Herndon
Nov. 29-Dec. 2.....Toronto	Apr. 10-13, 2017.....Toronto

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## Lean IT: Achieving Foundation Certification

Course 3630 • 2 Days

### YOU WILL LEARN HOW TO:

- Achieve operational excellence through improved agility, service quality and efficiency
- Build a customer and value-oriented culture in which employees engage in Lean IT processes, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Taking practice exam questions to confirm an understanding of the exam material
- Determining where there might be waste
- Analyzing the value stream
- Defining key performance indicators, and more ...

#### TUITION:

Standard **\$2,225**  
GOV **\$1,950**

**SCHEDULE:** Visit [LearningTree.ca/3630](http://LearningTree.ca/3630) for more dates.

June 27-28.....New York	Oct. 17-18.....Rockville
July 18-19.....Rockville	Nov. 14-15.....Alexandria
Aug. 29-30.....Herndon	Dec. 19-20.....New York
Sep. 26-27.....New York	Jan. 9-10, 2017.....Rockville

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## Accelerating Agile Development for Scrum Teams

**Course 1812 • 3 Days**

### YOU WILL LEARN HOW TO:

- Resolve organizational issues that impede your Agile teams' development
- Build high-performing teams for more valuable software delivery
- Avoid "story card hell" through effective backlog management
- Minimize waste using Lean principles, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Identifying bad "smells" to better focus a Scrum Master's Team improvement initiatives
- Simulating a requirements workshop for ATDD
- Prioritizing the resolution of impediments
- Mapping external dependencies to facilitate self-managing Teams, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN:

Certifications,  
PMI PDUs,  
Scrum Alliance SEUs

**SCHEDULE:** Visit [LearningTree.ca/1812](http://LearningTree.ca/1812) for more dates.

July 13-15..... Herndon	Jan. 4-6, 2017 ..... Herndon
Aug. 10-12..... New York	Feb. 8-10, 2017 ..... New York
Aug. 31-Sep. 2 ..... Rockville	Mar. 22-24, 2017 ..... Rockville
Nov. 30-Dec. 2..... Toronto	

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## Agile Test-Driven Development

**Course 1815 • 3 Days**

### YOU WILL LEARN HOW TO:

- Integrate Agile testing and quality assurance to ensure continuous attention to technical excellence and user satisfaction
- Prove your software delivers value using iterative cycles
- Ensure code quality and non-regression with automated testing
- Improve the design of existing code using refactoring techniques, and more ...

### HANDS-ON EXPERIENCE:

- Automating user acceptance through Behavior Testing
- Writing insightful Unit Tests
- Practicing TDD for product integrity
- Refactoring tests for better test coverage, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN:

Certifications,  
IIBA CDUs, PMI PDUs,  
Scrum Alliance SEUs

**SCHEDULE:** Visit [LearningTree.ca/1815](http://LearningTree.ca/1815) for more dates.

Aug. 31-Sep. 2 ..... Toronto	Dec. 7-9..... Ottawa
Sep. 7-9..... Rockville	Dec. 20-22..... Toronto
Oct. 19-21 ..... Herndon	Mar. 29-31, 2017 ..... Herndon
Nov. 2-4..... Alexandria	Apr. 19-21, 2017 ..... Toronto

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## Agile Software Development with Team Foundation Server

**Course 1816 • 4 Days**

### YOU WILL LEARN HOW TO:

- Manage an entire software project using Microsoft Team Foundation Server (TFS) and Visual Studio Online
- Document work using features, backlog items, tasks and bugs
- Maintain source code with Team Foundation Version Control and Git, and more ...

### HANDS-ON EXPERIENCE:

- Administering TFS projects and teams
- Breaking user stories into tasks
- Estimating, prioritizing and scheduling backlog items within Sprints, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/1816](http://LearningTree.ca/1816) for more dates.

July 26-29..... Toronto	Nov. 29-Dec. 2..... New York
Aug. 30-Sep. 2 ..... New York	Jan. 24-27, 2017 ..... Toronto
Sep. 6-9..... Rockville	Mar. 7-10, 2017 ..... Rockville
Sep. 27-30..... Ottawa	Mar. 21-24, 2017 ..... Ottawa

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## Agile Business Analysis

**Course 3511 • 3 Days**

### YOU WILL LEARN HOW TO:

- Establish the Product Owner role in Scrum teams by harnessing the experience of senior personnel to become a better Agile business analyst
- Create a Business Value Model to better understand requirements
- Quantify cost/benefit analysis to create a rational build order
- Create a Release Train using Minimal Marketable Features (MMFs), and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Defining the "Definition of Done"
- Performing an Envisioning Workshop
- Writing valuable Agile User Stories
- Specifying by example, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN:

Certifications,  
IIBA CDUs, PMI PDUs,  
Scrum Alliance SEUs

**SCHEDULE:** Visit [LearningTree.ca/3511](http://LearningTree.ca/3511) for more dates.

July 27-29..... Toronto	Nov. 8-10..... Toronto
Aug. 3-5..... Herndon	Dec. 14-16..... Rockville
Sep. 28-30..... Toronto	Jan. 4-6, 2017 ..... Toronto
Oct. 26-28 ..... Ottawa	Feb. 1-3, 2017 ..... Herndon

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Implementing Lean-Agile for Business and Operations

**Course 3641 • 4 Days**

### YOU WILL LEARN HOW TO:

- Boost results by adopting Lean-Agile principles
- Leverage an adaptive, value-driven development life cycle to shorten lead-time
- Identify and eliminate waste through value-stream analysis, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Creating and managing throughput with Kanban
- Managing priorities through backlog grooming and a decision matrix
- Testing assumptions through iterations
- Demonstrating progress using burndown charts, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

PMI PDUs,  
Scrum Alliance SEUs

**SCHEDULE:** Visit [LearningTree.ca/3641](http://LearningTree.ca/3641) for more dates.

Aug. 2-5..... Ottawa	Jan. 24-27, 2017 ..... Ottawa
Sep. 13-16.....New York	Mar. 7-10, 2017 .....New York
Oct. 25-28 .....Rockville	Apr. 18-21, 2017 .....Rockville
Nov. 29-Dec. 2..... Toronto	

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Agile Project Management with Scrum

**Course 918 • 3 Days**

### YOU WILL LEARN HOW TO:

- Deliver business-valued software to your customer in less time
- Develop higher-quality software products at lower cost
- Mitigate uncertainty and risk by applying Agile values and principles
- Apply the Scrum framework to meet business needs, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Identifying candidates for the Product Owner role
- Envisioning a product
- Estimating feature size using Planning Poker
- Simulating a six-Sprint project from start to finish, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN:

Certifications,  
PMI PDUs,  
Scrum Alliance SEUs

**SCHEDULE:** Visit [LearningTree.ca/918](http://LearningTree.ca/918) for more dates.

July 20-22..... Herndon	Nov. 9-11 .....Rockville
Aug. 10-12..... Toronto	Dec. 20-22..... Toronto
Sep. 14-16.....New York	Jan. 11-13, 2017 ..... Ottawa
Oct. 26-28 ..... Toronto	Feb. 22-24, 2017 ..... Toronto

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Agile Software Development and Modeling

**Course 933 • 4 Days**

### YOU WILL LEARN HOW TO:

- Manage, design, test and model Agile software projects
- Plan iterations based on relative effort and business value
- Monitor progress with backlogs, burn-down charts and task boards
- Increase quality with test-driven development, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Eliciting requirements and writing user stories
- Creating backlogs and burn-down charts to monitor progress
- Documenting features using detailed use cases and models
- Defining acceptance criteria and conditions of satisfaction, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
PMI PDUs,  
Scrum Alliance SEUs

**SCHEDULE:** Visit [LearningTree.ca/933](http://LearningTree.ca/933) for more dates.

Aug. 16-19..... Ottawa	Dec. 19-22.....New York
Sep. 6-9..... Toronto	Jan. 10-13, 2017 .....Rockville
Oct. 11-14 .....New York	Feb. 28-Mar. 3, 2017 ..Toronto
Nov. 1-4.....Herndon	Mar. 21-24, 2017 ..... Ottawa

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Project Management for Software Development

**Course 340 • 4 Days**

### YOU WILL LEARN HOW TO:

- Deliver successful software projects that support your organization's strategic goals
- Adjust your management style to reflect the chosen software development life cycle (SDLC), and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Reaching a consensus on project goals and deliverables
- Assessing your project for strategic risk
- Choosing the SDLC that best meets your needs
- Creating an effective project plan, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/340](http://LearningTree.ca/340) for more dates.

July 5-8..... Ottawa	Nov. 15-18 .....New York
Aug. 30-Sep. 2 .....New York	Dec. 6-9..... Herndon
Sep. 6-9..... Toronto	Jan. 3-6, 2017 ..... Toronto
Oct. 25-28 ..... Ottawa	Mar. 7-10, 2017 ..... Ottawa

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*



## Managing Agile Projects with JIRA Software

**Course 3642 • 4 Days**

### YOU WILL LEARN HOW TO:

- Manage Scrum and Kanban workflows with JIRA
- Achieve higher productivity with integrated tools
- Align configuration with your organization's needs
- Improve your day-to-day running of the projects, and more ...

### HANDS-ON EXPERIENCE:

- Creating boards and managing epics, stories and bugs
- Simulating Scrum sprints and Kanban life cycles
- Interpreting boards and reports
- Customizing JIRA workflows and reporting, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

**SCHEDULE:** Visit [LearningTree.ca/3642](http://LearningTree.ca/3642) for more dates.

July 19-22.....New York	Nov. 8-11 .....Rockville
Aug. 2-5.....Rockville	Dec. 19-22.....Herndon
Sep. 20-23.....Herndon	Jan. 17-20, 2017 .....New York
Oct. 18-21 .....New York	Mar. 21-24, 2017 .....Herndon

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Introduction to Software Testing

**Course 1830 • 3 Days**

### YOU WILL LEARN HOW TO:

- Apply general software testing principles and fundamental test processes
- Implement test levels and types to various software development models
- Conduct static techniques using proper roles, responsibilities and tools
- Manage tests, including planning, estimating, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Deciphering when to apply static and dynamic techniques
- Performing boundary value analysis
- Conducting state transition testing
- Ensuring statement, decision and condition coverage, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

**SCHEDULE:** Visit [LearningTree.ca/1830](http://LearningTree.ca/1830) for more dates.

June 29-July 1 .....New York	Dec. 20-22.....New York
July 20-22.....Toronto	Jan. 18-20, 2017 .....Rockville
Aug. 17-19.....Alexandria	Feb. 1-3, 2017 .....Toronto
Dec. 7-9.....Herndon	Mar. 1-3, 2017 .....Alexandria

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## User Experience (UX) Design for Successful Software

**Course 1802 • 3 Days**

### YOU WILL LEARN HOW TO:

- Generate a User Experience (UX) that integrates the needs of the user with the application
- Design personas and stories that drive User Interface (UI) design
- Leverage models and UX design patterns to develop a functional design
- Mold your design to gain acceptance and improve productivity, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Defining personas representing key members of each audience
- Developing the scenarios that personas will execute
- Building models using wireframes, storyboarding and interactive prototypes
- Supporting complex interactions with design patterns, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN:

Certifications,  
PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/1802](http://LearningTree.ca/1802) for more dates.

July 13-15.....Toronto	Jan. 4-6, 2017 .....Toronto
Aug. 3-5.....Herndon	Jan. 18-20, 2017 .....Herndon
Oct. 19-21 .....Herndon	
Dec. 7-9.....Ottawa	

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## User & System Requirements for Successful Software Development

**Course 218 • 4 Days**

### YOU WILL LEARN HOW TO:

- Develop requirements for software-intensive systems
- Build a use case-based requirements model
- Write user stories and brief, casual and fully developed use cases
- Model user interface using mock-ups and develop a data model, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Analyzing initiation documents and defining the elicitation approach
- Modeling requirements with UML diagrams using a CASE tool
- Capturing, structuring, iteratively writing and refining use cases
- Developing screen mock-ups, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
IIBA CDUs, PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/218](http://LearningTree.ca/218) for more dates.

Aug. 23-26.....Alexandria	Jan. 10-13, 2017 .....Toronto
Sep. 27-30.....Ottawa	Feb. 21-24, 2017 .....Ottawa
Oct. 4-7.....Toronto	Mar. 21-24, 2017 .....New York
Dec. 13-16.....Alexandria	Apr. 25-28, 2017 .....Toronto

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Software Quality Assurance: Implementing Consistent Quality

**Course 312 • 3 Days**

### YOU WILL LEARN HOW TO:

- Improve customer satisfaction through quality and process initiatives
- Implement and effectively lead Quality Assurance (QA) activities
- Analyze information through static and dynamic techniques including walk-throughs and inspections, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Discovering quality problems
- Creating a process
- Applying life cycle models
- Selecting the appropriate project standards, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN:

PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/312](http://LearningTree.ca/312) for more dates.

June 28-30 ..... Ottawa	Oct. 12-14 .....Rockville
July 20-22.....Rockville	Nov. 30-Dec. 2.....New York
Aug. 24-26.....New York	Dec. 14-16..... Ottawa
Sep. 28-30.....Toronto	Jan. 4-6, 2017 .....Rockville

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Software Change, Configuration and Release Management

**Course 342 • 3 Days**

### YOU WILL LEARN HOW TO:

- Proactively manage the components of projects
- Construct a Configuration Management (CM) plan
- Choose hardware and software items to control through Configuration Identification, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Matching project needs to CM process capability
- Coordinating check-in/check-out of CIs from/to the library
- Designing a change control process
- Identifying key reports needed for effective CM communications, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN:

PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/342](http://LearningTree.ca/342) for more dates.

Aug. 24-26.....Toronto	Mar. 8-10, 2017 ..... Ottawa
Oct. 12-14 ..... Ottawa	
Nov. 9-11 ..... Herndon	
Feb. 1-3, 2017 .....Toronto	

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Service-Oriented Architecture (SOA) Introduction

**Course 424 • 3 Days**

### YOU WILL LEARN HOW TO:

- Design modern SOA and apply SOA-specific methodologies, technologies and standards
- Analyze your organization to map it as a set of services
- Develop logical models for your SOA
- Convert your SOA design into a buildable specification, and more ...

### HANDS-ON EXPERIENCE:

- Mapping an organization as a set of services
- Driving service design from your organization's business requirements
- Modeling the SOA messages from business use cases
- Designing service messages to facilitate integration, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

**SCHEDULE:** Visit [LearningTree.ca/424](http://LearningTree.ca/424) for more dates.

July 20-22..... Toronto	Feb. 15-17, 2017 ..... Ottawa
Aug. 17-19..... Herndon	Mar. 8-10, 2017 ..... Toronto
Sep. 7-9..... Ottawa	
Jan. 25-27, 2017 ..... Herndon	

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## ISTQB Certified Tester: Achieving Foundation Certification

**Course 316 • 3 Days**

### YOU WILL LEARN HOW TO:

- Prepare for and take the ISTQB Certified Tester Foundation Level Exam
- Apply general software testing principles and fundamental test processes
- Implement test levels and types to various software development models
- Conduct static techniques using proper roles, responsibilities and tools, and more ...

### HANDS-ON EXPERIENCE:

- Deciphering when to apply static and dynamic techniques
- Performing boundary value analysis
- Conducting state transition testing
- Ensuring statement, decision and condition coverage, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN:

PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/316](http://LearningTree.ca/316) for more dates.

July 13-15..... Herndon	Nov. 30-Dec. 2.....Rockville
Aug. 24-26.....Rockville	Dec. 14-16.....New York
Sep. 21-23.....New York	Jan. 4-6, 2017 ..... Herndon
Oct. 12-14 ..... Herndon	Feb. 22-24, 2017 .....Rockville

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

# Big Data

Visit: [LearningTree.ca/BigData](https://LearningTree.ca/BigData)

BIG DATA	NUMBER OF DAYS	PAGE
Introduction to Big Data • Course 1250 .....	3	15
Introduction to Data Science for Big Data Analytics • Course 1253 .....	5	15
Hadoop Programming with Java for Big Data Solutions • Course 1251 .....	4	15
Hadoop Architecture & Administration for Big Data Solutions • Course 1252 .....	4	15
Extracting Business Value from Big Data with Pig, Hive & Impala • Course 1254 .....	4	16
Tableau: Presenting Analytic Visualizations • Course 1256 • <b>NEW!</b> .....	3	16
Building Apache Cassandra Databases • Course 1260 .....	3	16
Building Enterprise Solutions with MongoDB • Course 1261 .....	4	16
Apache Spark Programming with Scala for Big Data Solutions • Course 1262 • <b>NEW!</b> .....	4	17

## 1-DAY BOOT CAMPS — Live, Online via AnyWare™

Big Data Insights, Technologies & Trends • Course 4500 .....	<a href="https://LearningTree.ca/4500">LearningTree.ca/4500</a>
Programming to NoSQL Data Stores • Course 4501 .....	<a href="https://LearningTree.ca/4501">LearningTree.ca/4501</a>
Planning and Setting Up Your First Hadoop Cluster • Course 4502 .....	<a href="https://LearningTree.ca/4502">LearningTree.ca/4502</a>
Advanced Hadoop Configuration for High-Availability Clusters • Course 4503 .....	<a href="https://LearningTree.ca/4503">LearningTree.ca/4503</a>
Hadoop Programming Essentials • Course 4504 .....	<a href="https://LearningTree.ca/4504">LearningTree.ca/4504</a>
Customizing Hadoop MapReduce • Course 4505 .....	<a href="https://LearningTree.ca/4505">LearningTree.ca/4505</a>
Spark SQL • Course 5041 .....	<a href="https://LearningTree.ca/5041">LearningTree.ca/5041</a>
Spark Streaming • Course 5042 .....	<a href="https://LearningTree.ca/5042">LearningTree.ca/5042</a>
Spark Machine Learning • Course 5043 .....	<a href="https://LearningTree.ca/5043">LearningTree.ca/5043</a>
Introduction to R for Data Analytics • Course 5045 .....	<a href="https://LearningTree.ca/5045">LearningTree.ca/5045</a>
Azure Machine Learning • Course 5050 .....	<a href="https://LearningTree.ca/5050">LearningTree.ca/5050</a>

# Cloud Computing

Visit: [LearningTree.ca/Cloud](https://LearningTree.ca/Cloud)

CLOUD COMPUTING	NUMBER OF DAYS	PAGE
Cloud Computing Technologies Introduction • Course 1200 .....	3	17
Essentials of Cloud Security Management • Course 1220 .....	3	17
Amazon Web Services (AWS) • Course 1205 .....	4	17

## 1-DAY BOOT CAMPS — Live, Online via AnyWare™

Cloud Essentials • Course 4710 .....	<a href="https://LearningTree.ca/4710">LearningTree.ca/4710</a>
AWS New Features • Course 4711 .....	<a href="https://LearningTree.ca/4711">LearningTree.ca/4711</a>
OpenStack Overview • Course 4712 .....	<a href="https://LearningTree.ca/4712">LearningTree.ca/4712</a>



## Introduction to Big Data

**Course 1250 • 3 Days**

### YOU WILL LEARN HOW TO:

- Integrate Big Data components to create an appropriate Data Lake
- Select the correct Big Data stores for disparate data sets
- Process large data sets using Hadoop to extract value
- Query large data sets in near real time with Pig and Hive, and more ...

### HANDS-ON EXPERIENCE:

- Integrating key Big Data components to create a Big Data platform
- Loading unstructured data into Hadoop Distributed File System
- Querying Hadoop MapReduce jobs using Hive
- Simplifying Big Data processing and communicating with Pig Latin, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/1250](http://LearningTree.ca/1250) for more dates.

July 20-22..... Ottawa	Nov. 2-4.....Toronto
Aug. 17-19..... Toronto	Jan. 18-20, 2017 ..... Ottawa
Sep. 21-23..... Toronto	Feb. 1-3, 2017 ..... Toronto
Oct. 19-21 ..... Ottawa	Mar. 22-24, 2017 ..... Ottawa

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Introduction to Data Science for Big Data Analytics

**Course 1253 • 5 Days**

### YOU WILL LEARN HOW TO:

- Harness data mining methods to answer crucial business questions from internal and external data sources
- Create competitive advantage from both structured and unstructured data
- Predict outcomes with supervised machine learning techniques, and more ...

### HANDS-ON EXPERIENCE:

- Working with an R and RHadoop programming environment to analyze varied data sets
- Preprocessing and preparing data for deeper analysis
- Applying clustering, classification and regression to data sets, and more ...

### TUITION:

Standard **\$3,710**  
GOV **\$3,260**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/1253](http://LearningTree.ca/1253) for more dates.

July 11-15..... Toronto	Nov. 28-Dec. 2..... Toronto
Aug. 29-Sep. 2 ..... Toronto	Dec. 12-16.....New York
Sep. 19-23..... Ottawa	Jan. 30-Feb. 3, 2017 ..Herndon
Oct. 24-28 ..... Toronto	Feb. 13-17, 2017 ..... Toronto

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Hadoop Programming with Java for Big Data Solutions

**Course 1251 • 4 Days**

### YOU WILL LEARN HOW TO:

- Implement Hadoop jobs to extract business value from large and varied data sets
- Write, customize and deploy Java MapReduce jobs to summarize data
- Develop Hive and Pig queries to simplify data analysis
- Test and debug jobs using MRUnit, and more ...

### HANDS-ON EXPERIENCE:

- Developing efficient parallel algorithms
- Analyzing unstructured files and developing Java MapReduce jobs
- Loading and retrieving data from HDFS and HBase
- Extending Hive and Pig with User Defined Functions (UDFs), and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/1251](http://LearningTree.ca/1251) for more dates.

June 27-30 ..... Toronto	Nov. 22-25 ..... Toronto
July 5-8..... Herndon	Dec. 19-22.....New York
Aug. 23-26.....New York	Jan. 31-Feb. 3, 2017...Rockville
Sep. 6-9..... Herndon	Apr. 18-21, 2017 .....New York

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Hadoop Architecture & Administration for Big Data Solutions

**Course 1252 • 4 Days**

### YOU WILL LEARN HOW TO:

- Architect a Hadoop solution to satisfy your business requirements
- Install and build a Hadoop cluster capable of processing large data
- Configure and tune the Hadoop environment to ensure high throughput and availability
- Allocate, distribute and manage resources, and more ...

### HANDS-ON EXPERIENCE:

- Installing Hadoop to a cluster
- Reading and writing to the Hadoop Distributed File System (HDFS)
- Implementing High Availability, failover and recovery
- Setting up NameNode Federation, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/1252](http://LearningTree.ca/1252) for more dates.

July 26-29..... Herndon	Jan. 3-6, 2017 ..... Toronto
Aug. 30-Sep. 2 ..... Toronto	Feb. 14-17, 2017 .....Rockville
Oct. 4-7 ..... Herndon	Mar. 7-10, 2017 ..... Herndon
Dec. 13-16 ..... Ottawa	Apr. 18-21, 2017 ..... Toronto

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Extracting Business Value from Big Data with Pig, Hive & Impala

Course 1254 • 4 Days

### YOU WILL LEARN HOW TO:

- Manipulate complex data sets stored in Hadoop for competitive advantage without writing complex Java code
- Automate the transfer of data into Hadoop storage with Flume and Sqoop
- Filter data with Extract-Transform-Load (ETL) operations using Pig
- Query multiple data sets for analysis with Pig and Hive, and more ...

### HANDS-ON EXPERIENCE:

- Loading data into HDFS using Flume and Sqoop
- Transforming data sets with Pig and Hive
- Simplifying queries by creating Hive views
- Splitting and joining data sets in Pig and Hive, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/1254](http://LearningTree.ca/1254) for more dates.

July 12-15.....New York	Jan. 17-20, 2017 .....New York
Aug. 2-5.....Ottawa	Jan. 31-Feb. 3, 2017 ..Herndon
Sep. 13-16.....Toronto	Feb. 7-10, 2017 .....Ottawa
Sep. 27-30.....Herndon	Mar. 14-17, 2017 .....Toronto

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Tableau: Presenting Analytic Visualizations

Course 1256 • 3 Days

### YOU WILL LEARN HOW TO:

- Create interactive visualizations to deliver business insights
- Extract business intelligence by adding value to your data
- Integrate data from multiple heterogeneous sources
- Generate Tableau maps for geographical data, and more ...

### HANDS-ON EXPERIENCE:

- Simplifying code using auto, range-for and uniform initialization
- Replacing unnecessary inheritance with lambda expressions and the function template
- Writing efficient, thread-safe multi-processor applications
- Replacing manual memory management with smart pointers, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

**SCHEDULE:** Visit [LearningTree.ca/1256](http://LearningTree.ca/1256) for more dates.

July 27-29.....Herndon	Nov. 16-18.....New York
Aug. 17-19.....New York	Dec. 7-9.....Rockville
Sep. 7-9.....Rockville	Jan. 18-20, 2017 .....Herndon
Oct. 5-7 .....Alexandria	Feb. 15-17, 2017 .....New York

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Building Apache Cassandra Databases

Course 1260 • 3 Days

### YOU WILL LEARN HOW TO:

- Architect and engineer Cassandra databases for competitive advantage
- Model data in Cassandra based on query patterns
- Access Cassandra databases using CQL and Java
- Create a balance between read/write speed and data consistency, and more ...

### HANDS-ON EXPERIENCE:

- Querying data with the Cassandra Query Language, CQL
- Modeling and building Cassandra tables
- Partitioning and clustering with composite primary keys
- Achieving read and write consistency levels, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

**SCHEDULE:** Visit [LearningTree.ca/1260](http://LearningTree.ca/1260) for more dates.

June 29-July 1.....Herndon	Nov. 9-11 .....Rockville
Aug. 10-12.....Rockville	Dec. 7-9.....New York
Sep. 7-9.....New York	Jan. 4-6, 2017 .....Herndon
Oct. 12-14 .....Alexandria	Feb. 8-10, 2017 .....Rockville

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Building Enterprise Solutions with MongoDB

Course 1261 • 4 Days

### YOU WILL LEARN HOW TO:

- Develop highly scalable and cost-efficient applications with MongoDB
- Build efficient MongoDB data models for enterprise-scale applications
- Enhance performance with indexing and sharding
- Manage consistency with write concern and read preference, and more ...

### HANDS-ON EXPERIENCE:

- Configuring your MongoDB installation
- Developing Java and Python clients
- Designing data models and associated queries
- Building a highly scalable and available system, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

**SCHEDULE:** Visit [LearningTree.ca/1261](http://LearningTree.ca/1261) for more dates.

July 26-29.....Herndon	Nov. 1-4.....Herndon
Aug. 23-26.....Alexandria	Dec. 6-9.....Rockville
Sep. 6-9.....Rockville	Jan. 3-6, 2017 .....New York
Oct. 4-7 .....New York	Feb. 14-17, 2017 ...Alexandria

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## Apache Spark Programming with Scala for Big Data Solutions

Course 1262 • 4 Days

### YOU WILL LEARN HOW TO:

- Develop applications with Spark
- Work with the libraries for SQL, Streaming and Machine Learning
- Map real-world problems to parallel algorithms
- Building business applications that integrate with Spark, and more ...

### HANDS-ON EXPERIENCE:

- Embedding SQL queries within Spark applications
- Deriving insights from real-time data streams
- Classify and cluster data with Machine Learning
- Build a Spark-based RESTful web service, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

**SCHEDULE:** Visit [LearningTree.ca/1262](http://LearningTree.ca/1262) for more dates.

June 28-July 1 .....	New York	Dec. 6-9 .....	Rockville
July 26-29 .....	Herndon	Jan. 3-6, 2017 .....	New York
Sep. 6-9 .....	Rockville	Mar. 7-10, 2017 .....	Rockville
Oct. 25-28 .....	Herndon	Apr. 25-28, 2017 .....	Herndon

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Cloud Computing Technologies Introduction

Course 1200 • 3 Days

### YOU WILL LEARN HOW TO:

- Build/deploy cloud applications for effective implementation
- Exploit SaaS to optimize cost and resources
- Provision public IaaS and private IaaS
- Create, deploy and secure applications/services with PaaS, and more ...

### HANDS-ON EXPERIENCE:

- Deploying websites and data to Amazon IaaS
- Assessing PaaS tools for cloud applications
- Experiencing SaaS real-time collaboration tools
- Allocating resources on an OpenStack Private Cloud, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN:

Certifications,  
CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/1200](http://LearningTree.ca/1200) for more dates.

June 28-30 .....	Toronto	Oct. 5-7 .....	Toronto
July 27-29 .....	Herndon	Nov. 30-Dec. 2 .....	Ottawa
Aug. 31-Sep. 2 .....	Ottawa	Dec. 20-22 .....	Toronto
Sep. 7-9 .....	Herndon	Jan. 25-27, 2017 .....	Rockville

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## Essentials of Cloud Security Management

Course 1220 • 3 Days

### YOU WILL LEARN HOW TO:

- Analyze and implement security for public and private clouds
- Establish data integrity and privacy in the cloud to manage risk
- Maintain platform security and protect data confidentiality
- Protect networks, operating systems and applications in various cloud deployments, and more ...

### HANDS-ON EXPERIENCE:

- Assessing patching and configuration vulnerabilities of a cloud server
- Evaluating methods for data encryption
- Attaching encrypted long-term storage to a cloud server
- Verifying identity using a certificate chain, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN:

Certifications,  
CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/1220](http://LearningTree.ca/1220) for more dates.

July 27-29 .....	Ottawa	Nov. 8-10 .....	Toronto
Aug. 3-5 .....	Toronto	Jan. 18-20, 2017 .....	Ottawa
Sep. 14-16 .....	Herndon	Feb. 8-10, 2017 .....	Toronto
Oct. 26-28 .....	Herndon	Mar. 8-10, 2017 .....	Alexandria

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Amazon Web Services (AWS)

Course 1205 • 4 Days

### YOU WILL LEARN HOW TO:

- Develop robust, flexible and cost-effective cloud solutions with AWS
- Implement highly durable and reliable storage systems
- Customize Elastic Compute Cloud (EC2) images
- Deploy and host web apps, and more ...

### HANDS-ON EXPERIENCE:

- Installing command-line tools and administering AWS
- Provisioning EC2 instances and creating EBS volumes
- Configuring dynamic load balancing and auto scaling
- Implementing robust S3 storage solutions, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/1205](http://LearningTree.ca/1205) for more dates.

July 12-15 .....	Toronto	Nov. 8-11 .....	Herndon
Aug. 9-12 .....	Herndon	Jan. 31-Feb. 3, 2017 ..	Toronto
Sep. 27-30 .....	Rockville	Feb. 14-17, 2017 .....	Herndon
Oct. 4-7 .....	Herndon	Mar. 28-31, 2017 .....	Rockville

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# Cyber Security

Visit: [LearningTree.ca/Security](https://LearningTree.ca/Security)

CYBER SECURITY	NUMBER OF DAYS	PAGE
Cyber Security: Accessibility and Quality • Course 3674	4	19
National Cybersecurity Workforce Framework Workshop • Course 3941	1	19
Cyber Security Risk Assessment & Management • Course 2013	4	19
Cyber Security Risk Assessment & Management for the U.S. Government • Course 2051	4	19
Cyber Security for Management and the Boardroom • Course 2050 • <b>NEW!</b>	1/2	20
Defending the Perimeter from Cyber Attacks • Course 2010	4	20
Endpoint Security and Network Access Control • Course 2011	4	20
Targeted Human Threats: Social Engineering Deceptions, Exploits and Defences • Course 2012	3	20
Advanced Persistent Threats: Targeted Attacks & Defences • Course 2054	4	21
Digital Forensics: Windows System and Mobile Investigations • Course 2055	5	21
Identity Management • Course 2056	4	21
Disaster Recovery Planning: Ensuring Business Continuity • Course 289	4	21
System and Network Security Introduction • Course 468	4	22
Penetration Testing: Tools and Techniques • Course 537	4	22
Vulnerability Assessment: Protecting Your Organization • Course 589	4	22
Securing Web Applications, Services and Servers • Course 940	4	22

## PROFESSIONAL CERTIFICATIONS

CompTIA Security+ Certification Exam Preparation • Course 446	5	23
Certified Information Systems Security Professional (CISSP) Certification Exam Preparation • Course 2058	5	23
Certified Ethical Hacker (CEH) Certification Exam Preparation • Course 2031	5	23
CompTIA Advanced Security Practitioner (CASP) Certification Exam Preparation • Course 2046	5	23

## 1-DAY BOOT CAMPS — Live, Online via AnyWare™

Cyber Security: Key Elements for Success • Course 4520	<a href="https://LearningTree.ca/4520">LearningTree.ca/4520</a>
Starter Guide to Cyber Security • Course 4521	<a href="https://LearningTree.ca/4521">LearningTree.ca/4521</a>
Security Awareness • Course 4522	<a href="https://LearningTree.ca/4522">LearningTree.ca/4522</a>
Metasploit • Course 4523	<a href="https://LearningTree.ca/4523">LearningTree.ca/4523</a>
Identity Management Fundamentals • Course 4524	<a href="https://LearningTree.ca/4524">LearningTree.ca/4524</a>
Managing PKI • Course 4525	<a href="https://LearningTree.ca/4525">LearningTree.ca/4525</a>
Securing Smartphones with Mobile Apps • Course 4527	<a href="https://LearningTree.ca/4527">LearningTree.ca/4527</a>
Compliance Checklists (NIST Framework) • Course 4528	<a href="https://LearningTree.ca/4528">LearningTree.ca/4528</a>
Implementing Web Application Security • Course 4529	<a href="https://LearningTree.ca/4529">LearningTree.ca/4529</a>

## Cyber Security: Accessibility and Quality

Course 3674 • 4 Days

### YOU WILL LEARN HOW TO:

- Protect assets by selecting and managing effective security controls
- Evaluate the thoroughness and quality of security controls
- Do more than just "Security Theater"
- Provide a comprehensive strong defense and continuously monitor IT, and more ...

### HANDS-ON EXPERIENCE:

- Testing a real-world scenario workplace and server environment
- Performing assessment of current assets and management systems
- Categorizing your systems and determining the appropriate security controls
- Implementing and assessing security controls, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/3674](http://LearningTree.ca/3674) for more dates.

July 19-22.....New York	Nov. 15-18.....Herndon
Aug. 23-26.....Herndon	Dec. 13-16.....Alexandria
Sep. 13-16.....Alexandria	Jan. 17-20, 2017 .....New York
Oct. 18-21 .....New York	Feb. 21-24, 2017 .....Herndon

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## National Cybersecurity Workforce Framework (NCWF) Workshop

Course 3941 • 1 Day

### YOU WILL LEARN HOW TO:

- Navigate/identify Framework tasks applicable to your organization
- Improve cyber security performance better alignment of skills
- Categorize cyber security job roles & align them with the Framework
- Develop a cyber security workforce-needs plan, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Performing arithmetic computations and string operations
- Defining and calling top-level and class member functions
- Reading and writing formatted I/O
- Employing for loops and if/else decisions, and more ...

### About This Workshop:

*This workshop provides a practical demonstration of how to apply the NCWF Framework to your organization's specific cyber security workforce needs. In its highly interactive format, your expert instructor/advisor will help you apply the National Cybersecurity Workforce Framework in your environment.*

*Bring this course On-Site to address your organization's workforce needs. Please call 1-800-843-8733*

## Cyber Security Risk Assessment & Management

Course 2013 • 4 Days

### YOU WILL LEARN HOW TO:

- Implement standards-based, proven methodologies for assessing and managing the risks to your organization's information infrastructure
- Select and implement security controls that ensure compliance with applicable laws, regulations, policies, and directives, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Estimate the impact of failures of confidentiality, integrity, and availability
- Tailor the security control baseline to account for specialized system environments and operations
- Apply Operational Risk Management (ORM) in making authorization decisions, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/2013](http://LearningTree.ca/2013) for more dates.

July 12-15.....Ottawa	Nov. 29-Dec. 2.....Herndon
Aug. 2-5.....Toronto	Jan. 10-13, 2017 .....Ottawa
Sep. 20-23.....New York	Feb. 7-10, 2017 .....Toronto
Oct. 11-14 .....Herndon	Mar. 7-10, 2017 .....Herndon

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Cyber Security Risk Assessment & Management for the U.S. Government

Course 2051 • 4 Days

### YOU WILL LEARN HOW TO:

- Implement the NIST Risk Management Framework for assessing and managing the risks to your organization's information infrastructure
- Select and implement security controls that satisfy FISMA, OMB, and Department/Agency requirements, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Selecting and tailoring an appropriate security control baseline
- Applying/validating security controls from the SP 800-53 control catalog
- Performing system risk assessment and making authorization decisions, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/2051](http://LearningTree.ca/2051) for more dates.

June 28-July 1.....Alexandria	Nov. 15-18.....Alexandria
Aug. 2-5.....Herndon	Dec. 6-9.....Rockville
Sep. 27-30.....New York	Jan. 3-6, 2017 .....New York
Oct. 25-28 .....Herndon	Feb. 14-17, 2017 ...Alexandria

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Cyber Security for Management and the Boardroom

Course 2050 • 1/2 Day

### YOU WILL LEARN HOW TO:

- Ensure you understand the need for effective cyber security risk management
- Support cyber security planning with leading frameworks such as NIST
- Assess and understand the roles and responsibilities of management and board members, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Understanding why cyber security protection is so difficult to achieve
- Reviewing case studies and discuss lessons learned from major cyber security breaches
- Leveraging a cyber security framework to minimize exposure, and more ...

### TUITION:

Standard **\$385**  
GOV **\$385**

**SCHEDULE:** Visit [LearningTree.ca/2050](http://LearningTree.ca/2050) for more dates.

July 25 .....Rockville	Nov. 28 .....New York
Aug. 15 .....New York	Dec. 12 .....Herndon
Sep. 12 .....Herndon	Jan. 30, 2017 .....Rockville
Oct. 31 .....Rockville	Feb. 13, 2017 .....New York

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Defending the Perimeter from Cyber Attacks

Course 2010 • 4 Days

### YOU WILL LEARN HOW TO:

- Fortify your network perimeter to provide an integrated defense
- Prevent or mitigate the effects of network attacks with a firewall
- Detect and respond to network attacks with Intrusion Detection and Prevention (IDP)
- Design, install and configure secure Virtual Private Networks, and more ...

### HANDS-ON EXPERIENCE:

- Scanning and probing networks for open ports
- Setting up an ACL with a packet filtering router
- Configuring a firewall bastion host
- Deflecting attacks with an integrated IDS/IPS, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/2010](http://LearningTree.ca/2010) for more dates.

July 5-8 .....Rockville	Feb. 14-17, 2017 ..... Toronto
Aug. 23-26 .....Toronto	Feb. 21-24, 2017 .....Rockville
Sep. 20-23 .....Herndon	Apr. 11-14, 2017 ..... Herndon
Oct. 25-28 .....Rockville	

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Endpoint Security and Network Access Control

Course 2011 • 4 Days

### YOU WILL LEARN HOW TO:

- Enforce security policies to protect sensitive data from internal and external threats
- Deploy Network Access Control to prevent malware infestation
- Implement Data Loss Prevention (DLP) through host-based IDS/IPS and endpoint encryption, and more ...

### HANDS-ON EXPERIENCE:

- Assigning endpoints dynamically to VLANs
- Deploying agent software to manage endpoints
- Enforcing anti-malware policies
- Preventing exfiltration by regulating peripherals, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/2011](http://LearningTree.ca/2011) for more dates.

Aug. 2-5 ..... Ottawa	Jan. 17-20, 2017 ..... Ottawa
Aug. 16-19 .....New York	Feb. 7-10, 2017 .....New York
Oct. 11-14 .....Herndon	Feb. 21-24, 2017 .....Rockville
Oct. 18-21 .....Rockville	Apr. 11-14, 2017 ..... Herndon

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Targeted Human Threats: Social Engineering Deceptions, Exploits and Defenses

Course 2012 • 3 Days

### YOU WILL LEARN HOW TO:

- Defend against social engineering deceptions that threaten organizational security
- Plan and evaluate security assessments for human weaknesses
- Promote vigilance and implement procedures to defeat deceptions, and more ...

### HANDS-ON EXPERIENCE:

- Conducting a simulated dumpster dive to gather intelligence
- Identifying interview techniques that elicit private information
- Employing change blindness for impersonation, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN:

Certifications,  
CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/2012](http://LearningTree.ca/2012) for more dates.

July 13-15 ..... Alexandria	Jan. 4-6, 2017 ..... Alexandria
Oct. 5-7 ..... Herndon	Apr. 5-7, 2017 ..... Herndon
Nov. 8-10 ..... Ottawa	
Nov. 30-Dec. 2 .....Rockville	

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*



## Advanced Persistent Threats: Targeted Attacks & Defenses

Course 2054 • 4 Days

### YOU WILL LEARN HOW TO:

- Proactively identify organizational weaknesses in order to mitigate the risk of Advanced Persistent Threats (APT) and targeted attacks
- Assess and defend against the risk of cyber espionage
- Identify attack vectors and methods used by sophisticated attackers, and more ...

### HANDS-ON EXPERIENCE:

- Harvesting open source information about an organization
- Probing an internal network for secondary victims
- Searching for and identifying key assets vulnerable to exfiltration
- Implementing data loss prevention countermeasures, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/2054](http://LearningTree.ca/2054) for more dates.

July 5-8..... Herndon	Nov. 15-18 .....Rockville
Aug. 30-Sep. 2 .....New York	Dec. 19-22 .....Herndon
Sep. 6-9..... Herndon	Jan. 17-20, 2017 ... Alexandria
Oct. 25-28 ..... Alexandria	Feb. 21-24, 2017 .....Rockville

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Digital Forensics: Windows System and Mobile Investigations

Course 2055 • 5 Days

### YOU WILL LEARN HOW TO:

- Perform the essential duties of a Forensic Examiner
- Prepare for and execute digital forensic investigations on Windows-based systems
- Apply forensic methodologies to preserve, acquire, extract and analyze information of investigative importance, and more ...

### HANDS-ON EXPERIENCE:

- Mounting and performing keyword searching on forensic images
- Tracking user activity through forensics
- Documenting and presenting forensic reports and evidence
- Performing mobile forensic acquisitions, and more ...

### TUITION:

Standard **\$3,710**  
GOV **\$3,260**

### EARN:

Certifications,  
CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/2055](http://LearningTree.ca/2055) for more dates.

July 25-29..... Ottawa	Dec. 5-9..... Alexandria
Aug. 8-12..... Herndon	Jan. 9-13, 2017 ..... Ottawa
Sep. 12-16..... Alexandria	Feb. 13-17, 2017 ..... Herndon
Nov. 14-18 ..... Herndon	Mar. 13-17, 2017 ..... Rockville

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## Identity Management

Course 2056 • 4 Days

### YOU WILL LEARN HOW TO:

- Implement identity/access management to control access to IT resources
- Build a Public Key Infrastructure (PKI) to manage enterprise trust
- Seamlessly implement external trusts among organizations with federated Identity Management (IM)
- Enhance authentication with digital certificates, smart cards and biometrics, and more ...

### HANDS-ON EXPERIENCE:

- Establishing a Microsoft SCA under a Linux Root CA
- Cross-certifying enterprise PKIs with a Bridge CA
- Setting up Microsoft AD Federation 3.0
- Creating a federated logon to Azure and Amazon clouds, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/2056](http://LearningTree.ca/2056) for more dates.

July 12-15..... Herndon	Nov. 1-4 .....New York
Aug. 2-5.....New York	Dec. 13-16..... Alexandria
Sep. 6-9..... Alexandria	Jan. 10-13, 2017 ..... Herndon
Oct. 11-14 ..... Herndon	Feb. 14-17, 2017 .....Rockville

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## Disaster Recovery Planning: Ensuring Business Continuity

Course 289 • 4 Days

### YOU WILL LEARN HOW TO:

- Implement a Business Continuity Management System (BCMS)
- Set BCM in the organizational context
- Perform Business Impact Analysis (BIA) to identify business priorities
- Identify and respond to risk, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Identifying the impact on critical business functions
- Assessing risk: exposure, vulnerabilities and threats
- Developing appropriate countermeasures
- Organizing teams during incident response, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
CompTIA CEUs,  
PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/289](http://LearningTree.ca/289) for more dates.

June 28-July 1 ..... Herndon	Dec. 19-22 ..... Herndon
Aug. 23-26 .....New York	Feb. 7-10, 2017 .....New York
Sep. 13-16 .....Toronto	Mar. 7-10, 2017 ..... Toronto
Oct. 25-28 .....Rockville	

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## System and Network Security Introduction

**Course 468 • 4 Days**

### YOU WILL LEARN HOW TO:

- Analyze your exposure to security threats and protect your organization's systems and data
- Deploy firewalls and data encryption to minimize threats
- Assess alternative user and host authentication mechanisms, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Cracking passwords with dictionaries and rainbow tables
- Scanning systems for configuration issues
- Ensuring trusted server access via digital certificates
- Preventing unwanted network access with a personal firewall, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/468](http://LearningTree.ca/468) for more dates.

July 5-8..... Herndon	Nov. 8-11 ..... Herndon
Aug. 9-12..... Ottawa	Dec. 19-22..... Alexandria
Sep. 27-30..... Toronto	Jan. 24-27, 2017 ..... Toronto
Oct. 18-21 ..... Ottawa	Feb. 7-10, 2017 ..... Ottawa

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Penetration Testing: Tools and Techniques

**Course 537 • 4 Days**

### YOU WILL LEARN HOW TO:

- Deploy ethical hacking to expose weaknesses in your organization
- Gather intelligence by employing reconnaissance, published data and scanning tools
- Probe and compromise your network using hacking tools to test and improve your security
- Protect against privilege escalation to prevent intrusions, and more ...

### HANDS-ON EXPERIENCE:

- Executing advanced port scanning
- Performing injection attacks
- Hijacking web sessions with XSS, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/537](http://LearningTree.ca/537) for more dates.

June 27-30 ..... Ottawa	Oct. 4-7 ..... Ottawa
July 12-15..... New York	Dec. 6-9..... Toronto
Aug. 2-5..... Rockville	Jan. 3-6, 2017 ..... Ottawa
Sep. 6-9..... Herndon	Mar. 7-10, 2017 ..... Ottawa

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Vulnerability Assessment: Protecting Your Organization

**Course 589 • 4 Days**

### YOU WILL LEARN HOW TO:

- Detect and respond to vulnerabilities and minimize exposure to security breaches
- Employ real-world exploits and evaluate their effect on your systems
- Configure vulnerability scanners to identify weaknesses
- Analyze the results of vulnerability scans, and more ...

### HANDS-ON EXPERIENCE:

- Configuring vulnerability scanners
- Port scanning and enumeration
- Scanning infrastructure, servers and desktops
- Exploiting browsers, logging systems and Web applications, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/589](http://LearningTree.ca/589) for more dates.

July 12-15..... Toronto	Jan. 3-6, 2017 ..... Toronto
Sep. 6-9..... Herndon	Feb. 21-24, 2017 ..... Rockville
Oct. 18-21 ..... Ottawa	Mar. 21-24, 2017 ..... Herndon
Nov. 29-Dec. 2..... Herndon	Apr. 18-21, 2017 ..... Ottawa

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## Securing Web Applications, Services and Servers

**Course 940 • 4 Days**

### YOU WILL LEARN HOW TO:

- Implement and test secure web applications in your organization
- Identify, diagnose and remediate the OWASP top ten web application security risks
- Configure a web server to encrypt web traffic with HTTPS, and more ...

### HANDS-ON EXPERIENCE:

- Creating a trust boundary with proper input validation
- Avoiding Cross-Site Scripting (XSS) and Cross-Site Request Forgery (CSRF/XSRF)
- Preventing SQL injection vulnerabilities
- Implementing URL access restrictions, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/940](http://LearningTree.ca/940) for more dates.

Aug. 30-Sep. 2 ..... Ottawa	Dec. 19-22..... New York
Sep. 6-9..... Toronto	Jan. 17-20, 2017 ..... Toronto
Sep. 13-16..... Herndon	Feb. 21-24, 2017 ..... Ottawa
Nov. 1-4..... Ottawa	Mar. 14-17, 2017 ..... Herndon

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## CompTIA Security+ Certification Exam Preparation

**Course 446 • 5 Days**

### YOU WILL LEARN HOW TO:

- Successfully prepare for the CompTIA Security+ Certification Exam
- Confidently explain and define an array of security terminologies
- Navigate the complexity of secure communication protection
- Explore the concepts of network protection with firewalls and IDS, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Practicing exams daily for the six domains
- Analyzing protocols and security issues with Wireshark
- Employing an IDS to detect and deflect attacks
- Protecting communication with encryption and digital signatures, and more ...

### TUITION:

Standard **\$3,710**  
GOV **\$3,260**

### EARN:

Certifications,  
CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/446](http://LearningTree.ca/446) for more dates.

July 11-15..... Herndon	Nov. 14-18..... Ottawa
Aug. 15-19..... Toronto	Dec. 5-9..... Herndon
Sep. 12-16..... Alexandria	Jan. 30-Feb. 3, 2017 .. Toronto
Oct. 24-28 ..... Herndon	Feb. 6-10, 2017 ..... Herndon

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Certified Information Systems Security Professional (CISSP) Certification Exam Preparation

**Course 2058 • 5 Days**

### YOU WILL LEARN HOW TO:

- Strategically focus your preparation for CISSP Certification
- Protect resources using access control methods and cryptography
- Plan a secure environment aligned with organizational objectives, compliance requirements and industry-standard architectures, and more ...

### HANDS-ON EXPERIENCE:

- Employing tools, technologies and activities to enhance a practical understanding of the ten domains
- Analyzing protocols and security issues
- Developing successful learning strategies for exam preparation, and more ...

### TUITION:

Standard **\$3,710**  
GOV **\$3,260**

### EARN:

CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/2058](http://LearningTree.ca/2058) for more dates.

July 25-29..... Ottawa	Oct. 31-Nov. 4 ..... New York
Aug. 29-Sep. 2 ..... Toronto	Nov. 28-Dec. 2..... Rockville
Sep. 12-16..... Herndon	Dec. 5-9..... Alexandria
Oct. 24-28 ..... Ottawa	Feb. 13-17, 2017 ..... Toronto

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## Certified Ethical Hacker (CEH) Certification Exam Preparation

**Course 2031 • 5 Days**

### YOU WILL LEARN HOW TO:

- Apply countermeasures to secure your system against threats
- Test access to your data using ethical hacking techniques
- Implement real-world hacking techniques to test system security
- Employ complex tools to identify and analyze your company's risks and weaknesses, and more ...

### HANDS-ON EXPERIENCE:

- Scanning system resources with advanced IP scanners
- Hacking a web server by manipulating input
- Testing for Cross-Site Scripting (XSS) in a web application
- Detecting intrusions using Snort, and more ...

### TUITION:

Standard **\$3,710**  
GOV **\$3,260**

### EARN:

Certifications,  
CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/2031](http://LearningTree.ca/2031) for more dates.

June 27-July 1..... Rockville	Oct. 24-28 ..... Toronto
July 25-29..... Ottawa	Nov. 14-18..... New York
Aug. 29-Sep. 2 ..... Herndon	Dec. 5-9..... Herndon
Sep. 26-30..... Rockville	Feb. 27-Mar. 3, 2017 .. Ottawa

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## CompTIA Advanced Security Practitioner (CASP) Certification Exam Preparation

**Course 2046 • 5 Days**

### YOU WILL LEARN HOW TO:

- Successfully prepare for the CompTIA Advanced Security Practitioner (CASP) Certification Exam
- Investigate the enterprise storage requirements
- Examine risk management security policies and procedures, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Taking CASP-style daily practice exams
- Encrypting with asymmetric keys
- Analyzing a SQL injection attack
- Concealing files with Alternate Data Streams, and more ...

### TUITION:

Standard **\$3,710**  
GOV **\$3,260**

### EARN:

CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/2046](http://LearningTree.ca/2046) for more dates.

Sep. 26-30..... Herndon
Oct. 31-Nov. 4 ..... Rockville
Jan. 9-13, 2017 ..... Herndon
Apr. 24-28, 2017 ..... Rockville

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

# ITIL

Visit: [LearningTree.ca/ITIL](http://LearningTree.ca/ITIL)

## ITIL FOUNDATION

	NUMBER OF DAYS	PAGE
Achieving ITIL® Foundation Certification • <i>Course 1197</i> .....	3	25

## ITIL PRACTITIONER

Achieving ITIL® Practitioner Certification • <i>Course 1198</i> • <b>NEW!</b> .....	2	25
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## LIFECYCLE INTERMEDIATE QUALIFICATIONS

ITIL Intermediate: Continual Service Improvement • <i>Course 994</i> .....	3	25
ITIL Intermediate: Service Strategy • <i>Course 982</i> .....	3	26
ITIL Intermediate: Service Operation • <i>Course 991</i> .....	3	26
ITIL Intermediate: Service Transition • <i>Course 992</i> .....	3	26
ITIL Intermediate: Service Design • <i>Course 993</i> .....	3	27

## CAPABILITY INTERMEDIATE QUALIFICATIONS

ITIL Intermediate: Operational Support and Analysis • <i>Course 995</i> .....	5	26
ITIL Intermediate: Release, Control and Validation • <i>Course 996</i> .....	5	27
ITIL Intermediate: Service Offerings and Agreements • <i>Course 998</i> .....	5	27
ITIL Intermediate: Planning, Protection and Optimization • <i>Course 997</i> .....	5	27

## ITIL EXPERT QUALIFICATION

ITIL Managing Across the Lifecycle Qualification • <i>Course 983</i> .....	5	28
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# COBIT & SFIA

Visit: [LearningTree.ca/COBIT](http://LearningTree.ca/COBIT)

## COBIT

	NUMBER OF DAYS	PAGE
COBIT 5 Foundation • <i>Course 3922</i> .....	3	28

## SFIA (Skills Framework for the Information Age)

Defining IT Skills, Roles and Responsibilities using the SFIA Framework • <i>Course 3930</i> .....	1	28
IT Skills Assessment Workshop using the SFIA Framework • <i>Course 3931</i> .....	1	28

## Learning Tree's Exclusive ITIL Certification Success Package

Your ITIL training includes unlimited course and exam retakes, live webinars, and additional free resources to help you **achieve your ITIL goals**.

Learn more at: [LearningTree.ca/ITIL-Success](http://LearningTree.ca/ITIL-Success)





## Achieving ITIL® Foundation Certification

**Course 1197 • 3 Days**

### YOU WILL LEARN HOW TO:

- Prepare for and pass the ITIL Foundation Certification Exam
- Identify opportunities to develop IT processes using ITIL guidelines
- Interact with IT teams using ITIL terminology and concepts
- Explore IT service management processes, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Aligning ITIL processes and functions to service lifecycle stages
- Recognizing key principles of service strategy and service design
- Defining key concepts within service transition
- Interpreting principles used in service operation, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN: PMI PDUs



**SCHEDULE:** Visit [LearningTree.ca/1197](http://LearningTree.ca/1197) for more dates.

June 28-30 ..... Toronto	Aug. 24-26 ..... Toronto
July 6-8 ..... Herndon	Sep. 14-16 ..... New York
July 20-22 ..... Toronto	Sep. 21-23 ..... Ottawa
Aug. 10-12 ..... Ottawa	Oct. 5-7 ..... Toronto

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## ITIL® Intermediate: Continual Service Improvement

**Course 994 • 3 Days**

### YOU WILL LEARN HOW TO:

- Prepare for and pass the ITIL Continual Service Improvement (CSI) Exam
- Apply the seven-step improvement process
- Deliver CSI using proven techniques
- Organize for CSI by defining responsibilities with tools and technology, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Familiarizing yourself with terms used within the CSI phase
- Gaining insight into how CSI is embedded in ITSM
- Analyzing the seven-step improvement process
- Creating a balanced scorecard and a reporting policy template, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN: PMI PDUs



**SCHEDULE:** Visit [LearningTree.ca/994](http://LearningTree.ca/994) for more dates.

July 27-29 ..... Toronto	Nov. 9-11 ..... Rockville
Aug. 24-26 ..... New York	Dec. 7-9 ..... Toronto
Sep. 7-9 ..... Ottawa	Jan. 4-6, 2017 ..... Herndon
Oct. 12-14 ..... Toronto	Feb. 22-24, 2017 ..... Ottawa

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Achieving ITIL® Practitioner Certification

**Course 1198 • 2 Days**

After numerous requests for additional, practical elements to bridge the gap between ITIL Foundation and ITIL Intermediate certifications, AXELOS has developed the ITIL Practitioner qualification to provide IT Service Management (ITSM) professionals with essential ITIL adoption and improvement skills.

### TUITION:

Standard **\$2,225**  
GOV **\$1,950**



### YOU WILL LEARN HOW TO:

- Prepare for and pass the ITIL Practitioner Certification Exam
- Utilize the nine Guiding Principles and the CSI approach to manage ITIL improvements
- Enable improvements with metrics, measurements and communication
- Leverage organizational change management, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Recognizing and analyzing the core elements of a service
- Applying the nine Guiding Principles to a given context
- Determining and analyzing balanced CSFs and KPIs
- Utilizing best practice methods for communication, and more ...

**SCHEDULE:** Visit [LearningTree.ca/1198](http://LearningTree.ca/1198) for more dates.

Aug. 4-5 ..... Rockville	Nov. 10-11 ..... Rockville	Feb. 9-10, 2017 ..... Herndon
Aug. 25-26 ..... Herndon	Nov. 17-18 ..... Herndon	Mar. 2-3, 2017 ..... Rockville
Sep. 29-30 ..... New York	Dec. 15-16 ..... New York	Mar. 16-17, 2017 ..... New York

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**NEW!**

## ITIL® Intermediate: Service Strategy

Course 982 • 3 Days

### YOU WILL LEARN HOW TO:

- Prepare for and pass the ITIL Service Strategy (SS) Exam
- Analyze principles, techniques and relationships to create SS
- Identify the purpose, scope and objective of each SS process
- Assess IT governance to set strategy and leverage governance frameworks and bodies, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Matching service strategy terms and definitions
- Assessing a business case
- Elucidating a service provider's capabilities when carrying out strategic assessments
- Daily review sessions of the material, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN: PMI PDUs



**SCHEDULE:** Visit [LearningTree.ca/982](http://LearningTree.ca/982) for more dates.

June 29-July 1 ..... Herndon	Dec. 7-9 ..... Toronto
Sep. 14-16 ..... Toronto	Feb. 8-10, 2017 ..... New York
Oct. 5-7 ..... New York	Mar. 1-3, 2017 ..... Toronto
Nov. 8-10 ..... Ottawa	Apr. 26-28, 2017 ..... Ottawa

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## ITIL® Intermediate: Service Operation

Course 991 • 3 Days

### YOU WILL LEARN HOW TO:

- Prepare for and pass the ITIL Service Operation (SO) Exam
- Plan key activities for ITIL Service Operation processes
- Maintain stability in SO while allowing for changes in design, scale, scope and service
- Support operations through new models and architectures, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Familiarizing yourself with SO foundation terms and concepts
- Matching SO terms and definitions
- Determining business value and critical success factors for SO processes
- Considering SO functions and processes, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN: PMI PDUs



**SCHEDULE:** Visit [LearningTree.ca/991](http://LearningTree.ca/991) for more dates.

Aug. 10-12 ..... Ottawa	Dec. 14-16 ..... Toronto
Aug. 17-19 ..... Toronto	Feb. 8-10, 2017 ..... Ottawa
Oct. 12-14 ..... Toronto	Mar. 15-17, 2017 ..... Herndon
Nov. 2-4 ..... Herndon	Apr. 5-7, 2017 ..... Toronto

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## ITIL® Intermediate: Operational Support and Analysis

Course 995 • 5 Days

### YOU WILL LEARN HOW TO:

- Prepare for and pass the ITIL Operational Support and Analysis (OSA) Exam
- Outline key activities for ITIL OSA processes
- Achieve operational excellence by applying ITIL OSA processes
- Verify the success of OSA by evaluating challenges, critical success factors and risks, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Implementing a service desk using ITIL best practice
- Analyzing incidents and defining incident models
- Applying problem-solving techniques and investigating the cause
- Identifying request fulfillment interfaces, and more ...

### TUITION:

Standard **\$3,710**  
GOV **\$3,260**

### EARN: PMI PDUs



**SCHEDULE:** Visit [LearningTree.ca/995](http://LearningTree.ca/995) for more dates.

July 18-22 ..... Herndon	Nov. 28-Dec. 2 ..... Herndon
Aug. 29-Sep. 2 ..... Ottawa	Jan. 30-Feb. 3, 2017 ..... Herndon
Sep. 26-30 ..... New York	Feb. 13-17, 2017 ..... Toronto
Oct. 17-21 ..... Toronto	Mar. 6-10, 2017 ..... Rockville

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## ITIL® Intermediate: Service Transition

Course 992 • 3 Days

### YOU WILL LEARN HOW TO:

- Prepare for and pass the ITIL Service Transition (ST) Exam
- Outline key activities for ST processes
- Enhance the quality of IT service provision within an organization
- Manage people through service transitions, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Matching ST terms and definitions
- Assessing and evaluating the impact of changes
- Applying service transition principles
- Evaluating technology and implementation considerations for ST, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN: PMI PDUs



**SCHEDULE:** Visit [LearningTree.ca/992](http://LearningTree.ca/992) for more dates.

June 29-July 1 ..... Rockville	Nov. 2-4 ..... Herndon
July 20-22 ..... New York	Dec. 20-22 ..... Herndon
Aug. 24-26 ..... Herndon	Jan. 4-6, 2017 ..... Toronto
Sep. 7-9 ..... Toronto	Feb. 22-24, 2017 ..... Ottawa

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## ITIL® Intermediate: Release, Control and Validation

**Course 996 • 5 Days**

### YOU WILL LEARN HOW TO:

- Prepare for and pass the ITIL Release, Control and Validation (RCV) Exam
- Plan key activities for the RCV processes in the context of the service lifecycle
- Attain operational excellence by using RCV activities and functions
- Apply key metrics to evaluate RCV success, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Matching service transition terms and definitions
- Assessing change management and linking it to request fulfillment
- Mapping stakeholders and defining their importance and roles
- Evaluating ST roles and responsibilities, and more ...

### TUITION:

Standard **\$3,710**  
GOV **\$3,260**

### EARN: PMI PDUs



**SCHEDULE:** Visit [LearningTree.ca/996](http://LearningTree.ca/996) for more dates.

July 25-29..... Ottawa	Nov. 21-25.....Toronto
Aug. 15-19.....Herndon	Jan. 30-Feb. 3, 2017 .. Ottawa
Sep. 19-23..... Toronto	Feb. 13-17, 2017 .....Herndon
Oct. 24-28 .....Rockville	Apr. 24-28, 2017 .....Toronto

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## ITIL® Intermediate: Service Design

**Course 993 • 3 Days**

### YOU WILL LEARN HOW TO:

- Prepare for and pass the ITIL Service Design (SD) Exam
- Define the goal, objectives and scope of SD
- Outline key activities for SD processes
- Enhance the quality of IT service provision within an organization, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Putting ITIL terms into the context of a service acceptance criteria
- Analyzing sourcing strategies
- Drafting service level requirements
- Considering Service Design interfaces across the lifecycle, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN: PMI PDUs



**SCHEDULE:** Visit [LearningTree.ca/993](http://LearningTree.ca/993) for more dates.

July 13-15.....Rockville	Nov. 2-4..... Toronto
Aug. 3-5..... Ottawa	Jan. 11-13, 2017 ..... Toronto
Sep. 28-30.....Herndon	Feb. 1-3, 2017 ..... Ottawa
Oct. 12-14 .....New York	Mar. 22-24, 2017 ..... Toronto

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## ITIL® Intermediate: Service Offerings and Agreements

**Course 998 • 5 Days**

### YOU WILL LEARN HOW TO:

- Prepare for and pass the ITIL Service Offerings and Agreements (SOA) Exam
- Outline key activities for the SOA processes
- Achieve operational excellence using the SOA activities and functions, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Drafting a service catalog
- Estimating costs and performing cost analyses
- Establishing relevant patterns of business activity
- Developing a service-based SLA template, and more ...

### TUITION:

Standard **\$3,710**  
GOV **\$3,260**

### EARN: PMI PDUs



**SCHEDULE:** Visit [LearningTree.ca/998](http://LearningTree.ca/998) for more dates.

Aug. 29-Sep. 2 ..... Toronto	Jan. 9-13, 2017 .....New York
Sep. 26-30.....Herndon	Mar. 6-10, 2017 .....Herndon
Oct. 31-Nov. 4 ..... Ottawa	Mar. 27-31, 2017 .....Toronto
Dec. 12-16.....Herndon	Apr. 3-7, 2017 ..... Ottawa

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## ITIL® Intermediate: Planning, Protection and Optimization

**Course 997 • 5 Days**

### YOU WILL LEARN HOW TO:

- Prepare for and pass the ITIL Planning, Protection and Optimization (PPO) Exam
- Plan key activities for the PPO processes
- Attain operational excellence by using the PPO processes
- Apply key metrics to evaluate PPO success, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Performing analyses to facilitate capacity management
- Creating a capacity plan and conducting a resilience audit
- Prioritizing based on a business impact analysis
- Devising a continuity strategy, and more ...

### TUITION:

Standard **\$3,710**  
GOV **\$3,260**

### EARN: PMI PDUs



**SCHEDULE:** Visit [LearningTree.ca/997](http://LearningTree.ca/997) for more dates.

Aug. 15-19..... Toronto	Dec. 12-16..... Ottawa
Oct. 3-7 ..... Alexandria	Feb. 6-10, 2017 ..... Toronto
Oct. 24-28 .....Herndon	Apr. 10-14, 2017 .....Herndon
Dec. 5-9.....New York	

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## ITIL® Managing Across the Lifecycle Qualification

**Course 983 • 5 Days**

### YOU WILL LEARN HOW TO:

- Prepare for and pass the ITIL MALC Exam
- Apply governance and organizational structure to the management and delivery of IT services
- Implement effective communication and stakeholder management, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Identifying and evaluating risks
- Identifying potential stakeholders and creating a stakeholder map
- Integrating the service lifecycle stages and their processes
- Employing integrated processes to manage services, and more ...

### TUITION:

Standard **\$3,710**  
GOV **\$3,260**

### EARN: PMI PDUs



**SCHEDULE:** Visit [LearningTree.ca/983](http://LearningTree.ca/983) for more dates.

July 11-15.....Rockville	Nov. 28-Dec. 2.....Toronto
Aug. 29-Sep. 2 ..... Ottawa	Dec. 12-16.....Herndon
Sep. 26-30.....New York	Jan. 30-Feb. 3, 2017...Rockville
Oct. 17-21 .....Herndon	Feb. 13-17, 2017 ..... Ottawa

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## COBIT® 5 Foundation

**Course 3922 • 3 Days**

### YOU WILL LEARN HOW TO:

- Prepare for and sit the COBIT 5 Foundation Exam
- Navigate and apply the COBIT 5 framework for governance and management of enterprise IT
- Assess the COBIT 5 product architecture and the five key principles
- Govern and manage IT using the COBIT 5 enablers, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Evaluating the differences between governance and management
- Investigating the implementation pain points and triggers
- Applying COBIT 5 to assess the effectiveness of various processes
- Assessing people, skills and competencies for successful completion of all activities, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN:

PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/3922](http://LearningTree.ca/3922) for more dates.

July 20-22.....New York	Nov. 8-10.....Toronto
Aug. 10-12.....Toronto	Feb. 1-3, 2017 .....New York
Sep. 21-23.....Ottawa	Feb. 22-24, 2017 .....Toronto
Oct. 5-7 .....Rockville	Mar. 15-17, 2017 .....Rockville

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## Defining IT Skills, Roles and Responsibilities using SFIA

**Course 3930 • 1 Day**

### YOU WILL LEARN HOW TO:

- Navigate and utilize SFIA within your organization
- Define required IT competencies
- Align SFIA with your existing skills definitions
- Analyze and measure skill requirements, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Developing role profiles with SFIA skills
- Assessing competencies required to perform functions
- Utilizing gap analysis to produce development plans
- Developing a justification for utilizing SFIA in your organization, and more ...

### TUITION:

Standard **\$640**  
GOV **\$570**

### EARN:

PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/3930](http://LearningTree.ca/3930) for more dates.

Wednesday, August 10
Tuesday, November 1
Monday, January 30, 2017
Monday, April 24, 2017

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## IT Skills Assessment Workshop using the SFIA Framework

**Course 3931 • 1 Day**

### YOU WILL LEARN HOW TO:

- Improve IT performance through a better alignment of staff skills
- Plan a practical approach to utilizing SFIA within your organization
- Categorize the job roles and skills of your staff
- Identify skill deficiencies within your organization, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Defining boundaries for your SFIA activities
- Identifying and mapping IT job roles and levels
- Creating an approach to identify skill gaps
- Tailoring templates to suit your organization, and more ...



### About This Workshop:

*Learning Tree is a SFIA (Skills Framework for the Information Age) Accredited Partner and Training Provider. We can create custom job roles and competencies that best fit your organization, as well as provide applicable training for individuals to achieve SFIA certification with courses 3930 and 3931.*

*Bring this course On-Site to address your organization's workforce needs. Please call 1-800-843-8733*



# Java Programming

Visit: [LearningTree.ca/Java](http://LearningTree.ca/Java)

## JAVA PROGRAMMING

NUMBER OF DAYS PAGE

Java Programming Introduction • <i>Course 471</i> .....	4	30
Java Best Practices and Design Patterns • <i>Course 516</i> .....	4	30
Developing Java Web Applications • <i>Course 570</i> .....	4	30
Building REST and SOAP Web Services with Java • <i>Course 577</i> .....	4	30
Building Modern Java Enterprise Apps: JPA, EJB3, JSF & Ajax • <i>Course 936</i> .....	4	31
Developing Enterprise Java Applications with Spring & Hibernate • <i>Course 517</i> .....	4	31

## 1-DAY BOOT CAMPS — Live, Online via AnyWare™

Getting Started with Java • <i>Course 4530</i> .....	<a href="http://LearningTree.ca/4530">LearningTree.ca/4530</a>
Exposing Java Business Objects as SOAP Web Services • <i>Course 4531</i> .....	<a href="http://LearningTree.ca/4531">LearningTree.ca/4531</a>
Java Test-Driven Development with JUnit • <i>Course 4532</i> .....	<a href="http://LearningTree.ca/4532">LearningTree.ca/4532</a>
Getting Started with Spring MVC • <i>Course 4533</i> .....	<a href="http://LearningTree.ca/4533">LearningTree.ca/4533</a>
Java 8 New Features - Part 1 • <i>Course 4892</i> .....	<a href="http://LearningTree.ca/4892">LearningTree.ca/4892</a>
Java 8 New Features - Part 2 • <i>Course 4893</i> .....	<a href="http://LearningTree.ca/4893">LearningTree.ca/4893</a>



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Learn more at:

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FREE  
EXAMS!

## Java Programming Introduction

Course 471 • 4 Days

### YOU WILL LEARN HOW TO:

- Build robust console and GUI applications using Java's object-oriented features
- Design flexible object models using object-oriented principles
- Create robust applications using Java class libraries
- Organize complex data using Java collections, and more ...

### HANDS-ON EXPERIENCE:

- Developing an object-oriented model with UML notation
- Creating Java objects and calling their methods
- Structuring data with the Java collections API
- Developing platform-independent user interfaces, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/471](http://LearningTree.ca/471) for more dates.

July 19-22..... Ottawa	Nov. 7-10.....Toronto
Aug. 2-5.....Herndon	Dec. 19-22.....Toronto
Sep. 13-16.....Toronto	Jan. 24-27, 2017 ..... Ottawa
Oct. 11-14 .....New York	Mar. 7-10, 2017 .....Toronto

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## Java Best Practices and Design Patterns

Course 516 • 4 Days

### YOU WILL LEARN HOW TO:

- Employ best practices to build reliable and scalable Java applications
- Effectively apply Test-Driven Development to enhance program maintainability
- Solve architectural problems with proven design patterns
- Write robust threaded applications and avoid concurrency hazards, and more ...

### HANDS-ON EXPERIENCE:

- Creating tests in tandem with classes
- Refactoring code to improve maintainability
- Profiling a program and improving response time
- Matching garbage collection strategies to program requirements, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/516](http://LearningTree.ca/516) for more dates.

June 28-July 1 .....Rockville	Dec. 6-9.....Toronto
July 19-22..... Ottawa	Jan. 10-13, 2017 ..... Ottawa
Sep. 6-9.....Toronto	Feb. 21-24, 2017 .....Toronto
Nov. 29-Dec. 2..... Ottawa	Mar. 28-31, 2017 ..... Ottawa

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## Developing Java Web Applications

Course 570 • 4 Days

### YOU WILL LEARN HOW TO:

- Create dynamic, data-driven web applications by integrating key components of Java EE
- Generate dynamic web pages with JavaServer pages (JSP)
- Personalize content for users with cookies and sessions using the Java Servlet API
- Integrate JSP custom tags to minimize scriptlet code, and more ...

### HANDS-ON EXPERIENCE:

- Installing and configuring a servlet/JSP server
- Personalizing a website using sessions
- Leveraging reusable components and JavaServer Pages
- Integrating JSP custom tags, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/570](http://LearningTree.ca/570) for more dates.

July 12-15..... Ottawa	Nov. 8-11 .....Herndon
Aug. 2-5.....New York	Dec. 13-16..... Ottawa
Sep. 20-23.....Toronto	Jan. 24-27, 2017 .....Toronto
Oct. 11-14 ..... Ottawa	Feb. 21-24, 2017 ..... Ottawa

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Building REST and SOAP Web Services with Java

Course 577 • 4 Days

### YOU WILL LEARN HOW TO:

- Develop, deploy and monitor SOAP and RESTful web services and web service clients with JAX-WS and JAX-RS
- Implement a Service-Oriented Architecture (SOA) using web services
- Create and deploy WSDL-first and code-first web services
- Build synchronous and asynchronous web service clients in Java, and more ...

### HANDS-ON EXPERIENCE:

- Developing a code-first SOAP service
- Creating a contract-first SOAP web service from WSDL
- Writing REST web services that process XML and JSON
- Validating inputs to REST web services, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/577](http://LearningTree.ca/577) for more dates.

July 12-15..... Ottawa	Nov. 8-11 .....Herndon
Aug. 30-Sep. 2 ..... Herndon	Dec. 19-22..... Ottawa
Sep. 6-9.....Toronto	Jan. 17-20, 2017 .....Herndon
Oct. 4-7 .....Herndon	Feb. 7-10, 2017 ..... Ottawa

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## Building Modern Java Enterprise Apps: JPA, EJB3, JSF & Ajax

Course 936 • 4 Days

### YOU WILL LEARN HOW TO:

- Architect, deploy and secure enterprise applications with Java EE
- Persist data, manage transactions and control application security
- Effectively build business logic using Enterprise JavaBeans (EJB3)
- Create rich user interfaces using the JSF event-driven architecture, and more ...

### HANDS-ON EXPERIENCE:

- Building rich web-based interfaces using JSF
- Architecting a SPA using JavaScript to access REST services
- Leveraging EJB to build a scalable and distributed business layer
- Storing and retrieving data objects with JPA, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/936](http://LearningTree.ca/936) for more dates.

June 27-30 .....	Ottawa	Nov. 22-25 .....	Ottawa
July 19-22 .....	Rockville	Jan. 17-20, 2017 .....	Toronto
Sep. 6-9 .....	Ottawa	Mar. 7-10, 2017 .....	Rockville
Oct. 18-21 .....	Toronto	Apr. 4-7, 2017 .....	Ottawa

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## Developing Enterprise Java Applications with Spring & Hibernate

Course 517 • 4 Days

### YOU WILL LEARN HOW TO:

- Implement scalable, high-performance applications while reducing development time
- Build application infrastructure using Inversion of Control (IoC) and Dependency Injection (DI), and more ...

### HANDS-ON EXPERIENCE:

- Injecting dependencies with Spring IoC
- Streamlining development with Spring JDBC template support
- Applying modular code using AspectJ style AOP
- Implementing a Web Tier using Spring MVC, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

**SCHEDULE:** Visit [LearningTree.ca/517](http://LearningTree.ca/517) for more dates.

June 28-July 1 .....	Herndon	Oct. 4-7 .....	Toronto
July 12-15 .....	Ottawa	Nov. 1-4 .....	New York
Aug. 30-Sep. 2 .....	Ottawa	Dec. 6-9 .....	Ottawa
Sep. 6-9 .....	Herndon	Jan. 3-6, 2017 .....	Toronto

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Your achievement of Learning Tree Certification recognizes your personal commitment to professional development and provides you with tangible credentials to accelerate your career.

### Java Programming

#### Two Courses for Specialist Certification:

- ▶ **Java Programming Introduction**  
Course 471 • 4 Days • Page 30
- ▶ **Java Best Practices and Design Patterns**  
Course 516 • 4 Days • Page 30

#### Third Course for Expert Certification:

- ▶ **Building Modern Java Enterprise Apps: JPA, EJB3, JSF & Ajax**  
Course 936 • 4 Days • Page 31

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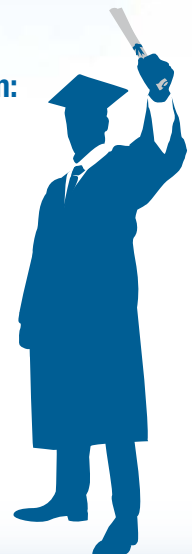
### Java Web Development

#### Two Courses for Specialist Certification:

- ▶ **Java Programming Introduction**  
Course 471 • 4 Days • Page 30
- ▶ **Developing Java Web Applications**  
Course 570 • 4 Days • Page 30

#### Third Course for Expert Certification:

- ▶ **Building REST and SOAP Web Services with Java**  
Course 577 • 4 Days • Page 30



# Linux & UNIX

Visit: [LearningTree.ca/Linux](https://LearningTree.ca/Linux)

## LINUX & UNIX

NUMBER OF DAYS PAGE

Linux Introduction • Course 143	4	33
Linux Administration and Support • Course 144	4	33
Linux Optimization and Troubleshooting • Course 1901	4	33
Linux Virtualization • Course 1902	4	33
UNIX Introduction • Course 428	4	34
UNIX and Linux Tools and Utilities • Course 396	4	34
Shell Programming • Course 434	3	34

## 1-DAY BOOT CAMPS — Live, Online via AnyWare™

Introduction to the Linux Command Line • Course 4600	<a href="https://LearningTree.ca/4600">LearningTree.ca/4600</a>
Linux for Power Users • Course 4601	<a href="https://LearningTree.ca/4601">LearningTree.ca/4601</a>
Shell Scripting with Bash • Course 4602	<a href="https://LearningTree.ca/4602">LearningTree.ca/4602</a>



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## Linux Introduction

**Course 143 • 4 Days**

### YOU WILL LEARN HOW TO:

- Manage and automate GNU open-source tools with Red Hat Linux
- Create, edit and search files and directories
- Limit access within the file system with permissions and ownership
- Connect to network services, and more ...

### HANDS-ON EXPERIENCE:

- Building, linking and removing Linux files and directories
- Setting and testing file permissions
- Customizing start-up scripts for enhanced Bash interactivity
- Retrieving and reusing previous commands to improve interactivity, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

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CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/143](http://LearningTree.ca/143) for more dates.

July 12-15..... Herndon	Dec. 6-9..... Herndon
Aug. 23-26..... Toronto	Jan. 31-Feb. 3, 2017 .. Toronto
Sep. 13-16..... New York	Feb. 28-Mar. 3, 2017 .. New York
Nov. 29-Dec. 2..... Ottawa	Mar. 21-24, 2017 ..... Herndon

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## Linux Administration and Support

**Course 144 • 4 Days**

### YOU WILL LEARN HOW TO:

- Design, configure and support Linux servers
- Control and troubleshoot the boot process
- Attach local storage and create file systems
- Deploy software components from source and binary packages, blending Red Hat with CentOS and other distributions, and more ...

### HANDS-ON EXPERIENCE:

- Configuring system boot sequence and services
- Logging critical data for regulatory compliance
- Creating and modifying users and groups
- Administering logical volumes and file systems, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
CompTIA CEUs

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Aug. 9-12..... Alexandria	Jan. 10-13, 2017 ..... Rockville
Oct. 11-14 ..... Toronto	Mar. 21-24, 2017 ..... Toronto

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## Linux Optimization and Troubleshooting

**Course 1901 • 4 Days**

### YOU WILL LEARN HOW TO:

- Troubleshoot Linux with effective tools and techniques
- Rescue an unbootable system
- Recover and tune local and remote file systems
- Optimize Linux application performance, and more ...

### HANDS-ON EXPERIENCE:

- Correcting and rebuilding the boot environment
- Checking a live file system using snapshots and logical volumes
- Repackaging applications for library compatibility
- Enabling firewall logging and correcting application errors, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

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CompTIA CEUs

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Nov. 1-4 ..... Herndon	
Nov. 29-Dec. 2..... Ottawa	
Feb. 7-10, 2017 ..... Rockville	

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## Linux Virtualization

**Course 1902 • 4 Days**

### YOU WILL LEARN HOW TO:

- Virtualize servers on a Linux platform to reduce operational costs
- Apply several different virtualization technologies
- Run Windows and UNIX and emulate ARM under Linux
- Tune virtual machines to maximize performance or security, and more ...

### HANDS-ON EXPERIENCE:

- Constructing virtual machines using KVM and QEMU
- Deploying and managing containers using LXC and Docker
- Provisioning and controlling Vms using virsh, virt-manager and oVirt
- Building custom tools using libvirt, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/1902](http://LearningTree.ca/1902) for more dates.

Oct. 4-7 ..... Herndon
Nov. 1-4 ..... New York
Mar. 28-31, 2017 ..... Herndon

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## UNIX Introduction

Course 428 • 4 Days

### YOU WILL LEARN HOW TO:

- Manage data, execute commands and customize your environment
- Navigate the UNIX directory hierarchy, manipulate files and control file access
- Interact with and customize the KornShell
- Extract and process information with filters and pipes, and more ...

### HANDS-ON EXPERIENCE:

- Making, removing and navigating directories
- Changing file access permissions
- Searching, sorting and restructuring data with commands
- Creating and executing shell scripts, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/428](http://LearningTree.ca/428) for more dates.

July 26-29..... Ottawa	Jan. 24-27, 2017 ..... Ottawa
Aug. 23-26..... Alexandria	Feb. 14-17, 2017 ... Alexandria
Sep. 13-16..... Toronto	Mar. 7-10, 2017 ..... Toronto
Nov. 7-10..... Toronto	Apr. 11-14, 2017 ..... Herndon

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## UNIX and Linux Tools and Utilities

Course 396 • 4 Days

### YOU WILL LEARN HOW TO:

- Build and use Linux/UNIX tools and utilities
- Perform complex search strings using regular expressions
- Explore extended regular expressions with grep, sed and awk
- Employ text filters to manipulate text and data, and more ...

### HANDS-ON EXPERIENCE:

- Forming powerful regular expressions for searching text
- Combining filters for text processing
- Refining the output of commands with sed
- Performing complex text selection and manipulation with awk, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
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July 19-22 ..... Toronto	Jan. 17-20, 2017 ..... Toronto
Sep. 13-16 ..... Ottawa	Jan. 31-Feb. 3, 2017 .. Ottawa
Nov. 22-25 ..... Toronto	Apr. 18-21, 2017 ..... Ottawa

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## Shell Programming

Course 434 • 3 Days

### YOU WILL LEARN HOW TO:

- Write Bash and KornShell scripts for improved productivity
- Integrate arrays, functions, pattern matching, I/O, branches, loops and variables
- Improve speed with multifile handling and string manipulations
- Create and reuse function libraries, and more ...

### HANDS-ON EXPERIENCE:

- Creating loops and making decisions with **case**, **while** and **if**
- Breaking a large program into functions
- Handling errors with default values
- Handling unexpected events with **trap**, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/434](http://LearningTree.ca/434) for more dates.

July 6-8.....Rockville	Dec. 7-9..... Ottawa
Aug. 17-19..... Ottawa	Jan. 11-13, 2017 ..... Toronto
Sep. 14-16..... Toronto	Mar. 8-10, 2017 ..... New York
Oct. 5-7 ..... Herndon	Apr. 19-21, 2017 ..... Ottawa

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Achievement of a Learning Tree Certification recognizes personal commitment to professional development and provides tangible credentials to accelerate your career.

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► **Linux Introduction**  
Course 143 • 4 Days • Page 33

► **Linux Administration and Support**  
Course 144 • 4 Days • Page 33

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► **Linux Optimization and Troubleshooting**  
Course 1901 • 4 Days • Page 33

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# Microsoft Office

Visit: [LearningTree.ca/Microsoft](http://LearningTree.ca/Microsoft)

## MICROSOFT OFFICE

NUMBER OF DAYS PAGE

Microsoft Office: Streamlining Tasks • <i>Course 972</i> .....	3	36
Microsoft Excel Introduction • <i>Course 1361</i> .....	3	36
Power Excel: Analyzing Data to Make Business Decisions • <i>Course 195</i> .....	2	36
Power Pivot for Excel: Mining Data for Business Intelligence • <i>Course 1362</i> .....	2	36
VBA Programming Introduction • <i>Course 209</i> .....	4	37
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## 1-DAY BOOT CAMPS — Live, Online via AnyWare™

Creating & Designing Excel Workbooks • <i>Course 4610</i> .....	<a href="http://LearningTree.ca/4610">LearningTree.ca/4610</a>
Excel PivotTables: Building Dashboards • <i>Course 4611</i> .....	<a href="http://LearningTree.ca/4611">LearningTree.ca/4611</a>
Automating Excel with Macros • <i>Course 4612</i> .....	<a href="http://LearningTree.ca/4612">LearningTree.ca/4612</a>
Managing Programs and Large Projects • <i>Course 4613</i> .....	<a href="http://LearningTree.ca/4613">LearningTree.ca/4613</a>
Customized Reporting in Microsoft Project 2013 • <i>Course 4614</i> .....	<a href="http://LearningTree.ca/4614">LearningTree.ca/4614</a>
Managing Resource Assignments in Microsoft Project • <i>Course 4615</i> .....	<a href="http://LearningTree.ca/4615">LearningTree.ca/4615</a>
Office 365 Overview • <i>Course 4616</i> .....	<a href="http://LearningTree.ca/4616">LearningTree.ca/4616</a>
Microsoft Office 2016: Improve Productivity • <i>Course 4617</i> • <b>NEW!</b> .....	<a href="http://LearningTree.ca/4617">LearningTree.ca/4617</a>



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## Microsoft Office: Streamlining Tasks

**Course 972 • 3 Days**

### YOU WILL LEARN HOW TO:

- Leverage the extensive features in Word, Excel and PowerPoint
- Streamline Office functionality by customizing the user interface
- Build professional documents in Word with enhanced functionality
- Quickly present and summarize data with Excel using PivotTables and PivotCharts, and more ...

### HANDS-ON EXPERIENCE:

- Setting up and customizing Microsoft Office for your environment
- Designing documents with styles, themes and sections
- Implementing the table of contents, headers and footers in Word
- Presenting data with charts in Excel, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

**SCHEDULE:** Visit [LearningTree.ca/972](http://LearningTree.ca/972) for more dates.

June 28-30 ..... Toronto	Oct. 12-14 ..... Ottawa
July 20-22 ..... Rockville	Nov. 9-11 ..... Alexandria
Aug. 17-19 ..... Alexandria	Dec. 14-16 ..... Toronto
Sep. 21-23 ..... New York	Jan. 18-20, 2017 ..... Rockville

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## Microsoft Excel Introduction

**Course 1361 • 3 Days**

### YOU WILL LEARN HOW TO:

- Summarize data with Excel by incorporating formulas, formatting, and charts and graphs
- Optimize your worksheets using templates, graphs and formulas
- Design simple to complex formulas by nesting Excel functions
- Import, fine-tune and share Excel data, and more ...

### HANDS-ON EXPERIENCE:

- Navigating the Excel interface for efficiency and speed
- Formatting and manipulating existing data for greater visual impact
- Designing formulas to summarize and refine raw data
- Troubleshooting and tracing formula errors, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/1361](http://LearningTree.ca/1361) for more dates.

July 20-22 ..... Rockville	Nov. 23-25 ..... Ottawa
Aug. 10-12 ..... Ottawa	Jan. 4-6, 2017 ..... Herndon
Sep. 7-9 ..... New York	Feb. 15-17, 2017 ..... Toronto
Oct. 5-7 ..... Toronto	Mar. 6-8, 2017 ..... New York

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## Power Excel: Analyzing Data to Make Business Decisions

**Course 195 • 2 Days**

### YOU WILL LEARN HOW TO:

- Leverage features of Microsoft Excel to facilitate business decisions
- Develop intelligent worksheets to quickly identify KPIs
- Perform "what-if" analyses for developing budget and project plans
- Summarize and analyze large amounts of data using PivotTables and Excel features, and more ...

### HANDS-ON EXPERIENCE:

- Automating lookup calculations
- Reducing speculation with "what-if" analyses
- Consolidating and summarizing data contained in multiple worksheets and workbooks, and more ...

### TUITION:

Standard **\$2,225**  
GOV **\$1,950**

### EARN:

Certifications,  
PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/195](http://LearningTree.ca/195) for more dates.

July 18-19 ..... Ottawa	Nov. 21-22 ..... Ottawa
Aug. 29-30 ..... Ottawa	Dec. 6-7 ..... New York
Sep. 19-20 ..... New York	Jan. 9-10, 2017 ..... Ottawa
Oct. 3-4 ..... Toronto	Mar. 13-14, 2017 ..... Ottawa

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## Power Pivot for Excel: Mining Data for Business Intelligence

**Course 1362 • 2 Days**

### YOU WILL LEARN HOW TO:

- Transform and present sophisticated data to provide BI
- Actualize a data model from multiple sources
- Shape and filter tables to prepare for analyses by fixing common issues
- Mine and expose hidden information with Data Analysis eXpressions, and more ...

### HANDS-ON EXPERIENCE:

- Loading data from multiple data sources into Power Pivot
- Merging and consolidating data to build a data model
- Summarizing and aggregating data with DAX functions
- Defining measures and KPIs, and more ...

### TUITION:

Standard **\$2,225**  
GOV **\$1,950**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/1362](http://LearningTree.ca/1362) for more dates.

July 7-8 ..... Toronto	Nov. 28-Dec. 29 ..... Toronto
Aug. 22-23 ..... Ottawa	Dec. 19-20 ..... Herndon
Sep. 19-20 ..... Toronto	Jan. 11-12, 2017 ..... Toronto
Oct. 31-Nov. 1 ..... Toronto	Feb. 9-10, 2017 ..... Toronto

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## VBA Programming Introduction

Course 209 • 4 Days

### YOU WILL LEARN HOW TO:

- Develop custom solutions, automate tasks and increase performance
- Apply the object models to program effectively in the Office System
- Enhancing the Office 2007-2013 Ribbon with new functionality
- Exploit ActiveX controls to create functional and familiar UIs, and more ...

### HANDS-ON EXPERIENCE:

- Building user interfaces with standard and custom controls
- Recovering from user mistakes
- Adding subtotaling to an Excel workbook
- Creating form letters and mail with userforms, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

**SCHEDULE:** Visit [LearningTree.ca/209](http://LearningTree.ca/209) for more dates.

July 5-8..... Ottawa	Dec. 19-22..... Herndon
Aug. 9-12.....New York	Jan. 10-13, 2017 ..... Ottawa
Oct. 4-7 ..... Ottawa	Feb. 28-Mar. 3, 2017 ..Toronto
Oct. 18-21 ..... Toronto	Mar. 14-17, 2017 ..... Ottawa

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## Microsoft Access Introduction

Course 970 • 4 Days

### YOU WILL LEARN HOW TO:

- Develop and support robust applications to query data, create forms and design reports
- Build applications with Form, Table, Report and Query wizards
- Create and integrate macros into your applications
- Implement advanced Access reporting features, and more ...

### HANDS-ON EXPERIENCE:

- Building a Microsoft Access database
- Building Tables based on user requirements
- Importing data from multiple different sources
- Establishing indexes and data relationships, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

**SCHEDULE:** Visit [LearningTree.ca/970](http://LearningTree.ca/970) for more dates.

July 5-8..... Ottawa	Dec. 13-16..... Herndon
Sep. 6-9.....New York	Jan. 3-6, 2017 ..... Ottawa
Oct. 25-28 .....New York	Feb. 28-Mar. 3, 2017.. New York
Nov. 1-4..... Toronto	Mar. 28-31, 2017 ..... Toronto

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# Microsoft Office 2016: New Features Overview

Microsoft Office 2016 opens the door to cloud computing and collaboration by introducing new, powerful productivity tools that can be used in and out of the office — anywhere, on any device.

## In Just One Day, You Will:

- Experience Office 2016 and the Cloud with One Drive
- Harness productivity tools in Word 2016 with Live Collaboration
- Manage your email, tasks and online meetings
- Analyze your business with Excel Power Tools, and more ...

**For course details and dates, visit:**

**[LearningTree.ca/4617](http://LearningTree.ca/4617)**

**NEW!**





# Mobile App Development & Apple Programming

Visit: [LearningTree.ca/Mobile](http://LearningTree.ca/Mobile)

## MOBILE APP DEVELOPMENT

NUMBER OF DAYS PAGE

Android Application Development & Programming • <i>Course 2771</i> .....	4	39
Mobile Application and Device Security • <i>Course 2781</i> .....	3	39

## APPLE PROGRAMMING & ENTERPRISE INTEGRATION

iPhone and iPad Application Development Introduction • <i>Course 2761</i> .....	4	39
Swift Programming Introduction • <i>Course 2763</i> .....	4	39
Integrating Mac OS X in the Enterprise • <i>Course 947</i> .....	4	46



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## Android Application Development & Programming

**Course 2771 • 4 Days**

### YOU WILL LEARN HOW TO:

- Deliver robust mobile business applications and integrate with enterprise systems
- Create intuitive, reliable software using activities, services and intents
- Design UIs that work seamlessly with a range of phones and tablets
- Share data with system and applications using providers, and more ...

### HANDS-ON EXPERIENCE:

- Creating an Android application from the ground up
- Building the UI using the Android Studio GUI tools
- Composing the user interface from Fragments
- Integrating applications with the SQLite database, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/2771](http://LearningTree.ca/2771) for more dates.

June 28-July 1 .....New York	Oct. 11-14 .....Toronto
July 5-8 .....Ottawa	Nov. 8-11 .....Herndon
Aug. 2-5 .....Herndon	Jan. 3-6, 2017 .....Ottawa
Sep. 13-16 .....New York	Feb. 7-10, 2017 .....New York

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## iPhone and iPad Application Development Introduction

**Course 2761 • 4 Days**

### YOU WILL LEARN HOW TO:

- Apply development techniques to create iPhone and iPad applications
- Design and test UIs with Interface Builder and the Simulator
- Add functionality using Xcode and either Swift or Objective-C
- Combine navigation controllers and tab bars to provide a multifunctional user interface, and more ...

### HANDS-ON EXPERIENCE:

- Building applications with Xcode
- Writing Swift or Objective-C code to control the user interface
- Incorporating Cocoa Touch frameworks
- Combining multiple views with tab bars, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/2761](http://LearningTree.ca/2761) for more dates.

Aug. 16-19 .....Herndon	Dec. 19-22 .....Toronto
Sep. 6-9 .....New York	Feb. 21-24, 2017 .....Herndon
Oct. 11-14 .....Rockville	Mar. 21-24, 2017 .....Rockville
Nov. 1-4 .....Toronto	Apr. 25-28, 2017 .....Toronto

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## Swift Programming Introduction

**Course 2763 • 4 Days**

### YOU WILL LEARN HOW TO:

- Create, compile and execute Swift programs using Xcode
- Verify Swift code in Playgrounds
- Organize code with classes, structures and enumerations
- Develop Mac, iPhone and iPad applications that use functions, and more ...

### HANDS-ON EXPERIENCE:

- Incorporating built-in and user-defined data types into applications
- Declaring classes with custom initializers
- Leveraging the capabilities of Swift with function types
- Developing reusable code with generics, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
CompTIA CEUs

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Aug. 16-19 .....New York	Dec. 13-16 .....Toronto
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Nov. 1-4 .....New York	Apr. 11-14, 2017 .....New York
Nov. 29-Dec. 2 .....Herndon	

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## Mobile Application and Device Security

**Course 2781 • 3 Days**

### YOU WILL LEARN HOW TO:

- Develop secure applications for Android and iOS
- Leverage OWASP best practices for secure mobile app development
- Identify and mitigate the most significant threats to mobile apps
- Protect application data at rest and in motion, and more ...

### HANDS-ON EXPERIENCE:

- Modeling and prioritizing threats to mobile applications
- Correcting mobile risks using OWASP resources and techniques
- Encrypting critical application data on mobile devices
- Preventing injection flaws with enhanced input validation, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN:

Certifications,  
CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/2781](http://LearningTree.ca/2781) for more dates.

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# .NET/Visual Studio

Visit: [LearningTree.ca/.NET](http://LearningTree.ca/.NET)

## .NET/VISUAL STUDIO

NUMBER OF DAYS PAGE

Programming with .NET Introduction • <i>Course 502</i> .....	4	41
Visual Basic Programming for .NET • <i>Course 503</i> .....	4	41
C# Programming • <i>Course 419</i> .....	4	41
Programming C# Extended Features • <i>Course 973</i> .....	4	41
.NET Best Practices and Design Patterns • <i>Course 511</i> .....	4	42
.NET 4.5 Programming for Existing .NET Developers • <i>Course 2620</i> .....	4	42
Building Web Applications with ASP.NET MVC • <i>Course 977</i> .....	4	42
Building ASP.NET Web Forms Applications • <i>Course 2621</i> .....	4	42
WCF, Web API and SignalR Services for .NET • <i>Course 2601</i> .....	4	43
Crystal Reports • <i>Course 126</i> .....	4	43

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Getting Started with ASP.NET MVC • <i>Course 4640</i> .....	<a href="http://LearningTree.ca/4640">LearningTree.ca/4640</a>
Kick-Starting C# Object-Oriented Programming • <i>Course 4641</i> .....	<a href="http://LearningTree.ca/4641">LearningTree.ca/4641</a>
Quick Start to Developing Applications with the .NET Framework • <i>Course 4642</i> .....	<a href="http://LearningTree.ca/4642">LearningTree.ca/4642</a>
Building Single-Page Applications with .NET • <i>Course 4643</i> .....	<a href="http://LearningTree.ca/4643">LearningTree.ca/4643</a>
ASP.NET MVC with AngularJS and Bootstrap • <i>Course 4644</i> .....	<a href="http://LearningTree.ca/4644">LearningTree.ca/4644</a>
Developing ASP.NET Web API Services • <i>Course 4645</i> .....	<a href="http://LearningTree.ca/4645">LearningTree.ca/4645</a>
Entity Framework (EF) Code First • <i>Course 4646</i> .....	<a href="http://LearningTree.ca/4646">LearningTree.ca/4646</a>
Introduction to .NET Design Patterns • <i>Course 4648</i> .....	<a href="http://LearningTree.ca/4648">LearningTree.ca/4648</a>
Introduction to Language Integrated Query (LINQ) • <i>Course 4650</i> .....	<a href="http://LearningTree.ca/4650">LearningTree.ca/4650</a>
Introduction to ASP.NET Web Forms • <i>Course 4652</i> .....	<a href="http://LearningTree.ca/4652">LearningTree.ca/4652</a>
Jumpstart to Programming • <i>Course 4680</i> .....	<a href="http://LearningTree.ca/4680">LearningTree.ca/4680</a>



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EXAMS!

## Programming with .NET Introduction

Course 502 • 4 Days

### YOU WILL LEARN HOW TO:

- Design and program web and Windows applications with .NET and Visual Studio (VS)
- Write object-oriented code using C# and Visual Basic (VB)
- Leverage VS for code generation, UI design, testing and debugging
- Create ASP.NET web applications and process Web Forms, and more ...

### HANDS-ON EXPERIENCE:

- Writing applications using VB or C#
- Programming desktop and console applications
- Leveraging Visual Studio tools for rapid application development
- Creating ASP.NET web applications and processing Web Forms, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

**SCHEDULE:** Visit [LearningTree.ca/502](http://LearningTree.ca/502) for more dates.

July 5-8.....Rockville	Nov. 22-25.....Ottawa
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Sep. 20-23.....New York	Jan. 10-13, 2017 .....Toronto
Oct. 4-7.....Toronto	Feb. 14-17, 2017 .....Ottawa

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## Visual Basic Programming for .NET

Course 503 • 4 Days

### YOU WILL LEARN HOW TO:

- Construct business applications that fully exploit VB and .NET
- Model business logic by coding classes with fields, properties, methods and events
- Apply inheritance, interfaces and polymorphism
- Design Windows and ASP.NET web user interfaces with Visual Basic, and more ...

### HANDS-ON EXPERIENCE:

- Constructing Visual Studio solutions and Visual Basic projects
- Coding business logic classes using Visual Studio
- Employing object-oriented features of Visual Basic
- Creating well-designed ASP.NET web and Windows UIs, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/503](http://LearningTree.ca/503) for more dates.

July 5-8.....Ottawa	Dec. 19-22.....New York
Sep. 6-9.....New York	Jan. 3-6, 2017 .....Ottawa
Oct. 11-14 .....Toronto	Feb. 21-24, 2017 .....Rockville
Nov. 8-11 .....Alexandria	Apr. 18-21, 2017 .....Toronto

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## C# Programming

Course 419 • 4 Days

### YOU WILL LEARN HOW TO:

- Create, compile and run object-oriented C# programs
- Write and understand C# language constructs, syntax and semantics
- Produce programs using solid multilayer architectures
- Develop reusable .NET components via inheritance and interface realization, and more ...

### HANDS-ON EXPERIENCE:

- Writing and compiling C# programs using Visual Studio
- Building C# classes and inheritance hierarchies
- Writing desktop and web apps with Windows Forms and Web Forms
- Constructing and deploying custom .NET components, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/419](http://LearningTree.ca/419) for more dates.

July 12-15.....Ottawa	Nov. 22-25.....Toronto
Aug. 23-26.....New York	Dec. 19-22.....Herndon
Sep. 13-16.....Toronto	Jan. 24-27, 2017 .....New York
Oct. 18-21 .....Ottawa	Feb. 14-17, 2017 .....Ottawa

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## Programming C# Extended Features

Course 973 • 4 Days

### YOU WILL LEARN HOW TO:

- Streamline data-centric applications with C# extended features and the Entity Framework (EF)
- Apply lambda expressions and extension methods
- Exploit LINQ keywords to filter and order data
- Generate dynamic enumerations in developer-written generic classes, and more ...

### HANDS-ON EXPERIENCE:

- Writing lambda expressions and applying them in extension methods
- Implementing the data tier accessor with LINQ and EF
- Employing context objects and LINQ query keywords to access and update a database, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/973](http://LearningTree.ca/973) for more dates.

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Oct. 27-30.....Toronto	Apr. 4-7, 2017 .....Toronto

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## .NET Best Practices and Design Patterns

**Course 511 • 4 Days**

### YOU WILL LEARN HOW TO:

- Solve complex programming problems using design patterns
- Deliver bug-free code using test-driven development in Visual Studio
- Create layered architectures for reusability and eliminating functional duplication
- Apply the S.O.L.I.D. principles for better class design, and more ...

### HANDS-ON EXPERIENCE:

- Simplifying a complex system with the Façade pattern
- Creating a Business Domain Object Model
- Building automated test cases
- Automating UI testing with the MVC and MVVM patterns, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/511](http://LearningTree.ca/511) for more dates.

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## .NET 4.5 Programming for Existing .NET Developers

**Course 2620 • 4 Days**

### YOU WILL LEARN HOW TO:

- Enhance .NET applications with .NET 4/4.5 and Visual Studio
- Leverage parallel and asynchronous computing features
- Automate access to data with the EF ORM and LINQ to Entities
- Optimize new ASP.NET and WCF features, including Web API, jQuery, JSON and REST, and more ...

### HANDS-ON EXPERIENCE:

- Enhancing ASP.NET 2 applications using new features of .NET
- Maximizing efficiency of multiprocessors with parallelism
- Programming LINQ to Object queries
- Mapping object and relational data using Entity Framework, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/2620](http://LearningTree.ca/2620) for more dates.

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Aug. 9-12 .....	Ottawa	Dec. 6-9 .....	Herndon
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Oct. 25-28 .....	Toronto	Apr. 18-21, 2017 .....	Toronto

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## Building Web Applications with ASP.NET MVC

**Course 977 • 4 Days**

### YOU WILL LEARN HOW TO:

- Build and deploy secure, scalable applications with ASP.NET MVC
- Produce clean, maintainable code using the MVC architecture
- Develop powerful application controllers to respond to user requests
- Validate user input with HTML helpers and unobtrusive JavaScript, and more ...

### HANDS-ON EXPERIENCE:

- Implementing robust controllers for smooth application flow
- Generating dynamic views with Razor
- Validating user input with client- and server-side rules
- Building rich applications for desktop and mobile browsers, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/977](http://LearningTree.ca/977) for more dates.

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## Building ASP.NET Web Forms Applications

**Course 2621 • 4 Days**

### YOU WILL LEARN HOW TO:

- Build HTML5 web applications using ASP.NET and Visual Studio
- Design consistent UIs with Master Pages, user controls and Web Form controls
- Secure access to the application using Web Forms authentication, and more ...

### HANDS-ON EXPERIENCE:

- Displaying data with Web Form controls
- Creating mobile web pages with jQuery Mobile
- Connecting Ajax to the Web API
- Exploiting ASP.NET security features for Web UIs, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/2621](http://LearningTree.ca/2621) for more dates.

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Sep. 20-23 .....	Rockville	Feb. 21-24, 2017 .....	New York
Nov. 22-25 .....	Toronto	Mar. 21-24, 2017 .....	Rockville

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## WCF, Web API and SignalR Services for .NET

Course 2601 • 4 Days

### YOU WILL LEARN HOW TO:

- Create Windows Communication Foundation (WCF) services
- Develop RESTful Web services with ASP.NET Web API
- Harness real-time Web services with SignalR
- Connect MVC, WPF and HTML5 browser clients to .NET services, and more ...

### HANDS-ON EXPERIENCE:

- Coding WCF service contracts and implementations
- Invoking WCF service operations from ASP.NET MVC controllers
- Connecting HTML5 web clients to ASP.NET Web API services
- Broadcasting data to multiple Web clients, and more ...

### TUITION:

Standard **\$3,285**  
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## Crystal Reports

Course 126 • 4 Days

### YOU WILL LEARN HOW TO:

- Develop reports to transform data into meaningful information
- Create advanced graphical and crosstab reports
- Add calculations and program logic with the Formula Workshop
- Connect to data sources and extract data to meet reporting needs, and more ...

### HANDS-ON EXPERIENCE:

- Building reports from the ground up
- Connecting to data sources natively, via OLE DB and ODBC
- Designing a crosstab and drill-down report
- Developing a summary report with drill-down capabilities, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

**SCHEDULE:** Visit [LearningTree.ca/126](http://LearningTree.ca/126) for more dates.

Aug. 23-26.....	New York	Jan. 31-Feb. 3, 2017..	New York
Sep. 13-16.....	Toronto	Feb. 21-24, 2017 .....	Toronto
Oct. 11-14 .....	Rockville	Apr. 10-13, 2017 .....	Toronto
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**“ My ASP.NET MVC training was highly relevant and well presented. It had the perfect amount of content and level of detail; completely covering all topics I expected. ”**

— R. Harris, Vice President  
Mitsubishi UFJ Securities International



# Networking & Virtualization

Visit: [LearningTree.ca/Networking](http://LearningTree.ca/Networking)

## NETWORKING & VIRTUALIZATION

	NUMBER OF DAYS	PAGE
Introduction to Networking • <i>Course 450</i> .....	4	45
Network Configuration and Troubleshooting • <i>Course 451</i> .....	4	45
Virtualization Technologies Introduction • <i>Course 170</i> .....	4	45
Deploying VMware vSphere • <i>Course 171</i> .....	4	45
Troubleshooting VMware vSphere (5.x) • <i>Course 2701</i> .....	4	46
Windows Server 2012 Hyper-V Virtualization • <i>Course 2417</i> .....	4	46
IPv6: Implementing the Next-Generation Network • <i>Course 2703</i> • 4 Days .....		<a href="http://LearningTree.ca/2703">LearningTree.ca/2703</a>
Introduction to Software-Defined Networking (SDN) • <i>Course 2705</i> • 3 Days .....		<a href="http://LearningTree.ca/2705">LearningTree.ca/2705</a>

## MAC OS

Integrating Mac OS X in the Enterprise • <i>Course 947</i> .....	4	46
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## CISCO CERTIFICATIONS

Interconnecting Cisco Networking Devices Part 1 (ICND1) • <i>Course 2801</i> .....	5	47
Interconnecting Cisco Networking Devices Part 2 (ICND2) • <i>Course 2802</i> .....	5	47
CCNA Boot Camp (CCNAX) • <i>Course 2803</i> .....	5	47

## COMPTIA CERTIFICATIONS

Preparing for the CompTIA Network+ Certification Exam • <i>Course 2708</i> .....	5	46
CompTIA A+ Certification Exam Prep • <i>Course 445</i> .....	5	47

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Data Network Concepts • <i>Course 4570</i> .....	<a href="http://LearningTree.ca/4570">LearningTree.ca/4570</a>
Introduction to Network Switching • <i>Course 4571</i> .....	<a href="http://LearningTree.ca/4571">LearningTree.ca/4571</a>
TCP/IP Network Address Fundamentals • <i>Course 4573</i> .....	<a href="http://LearningTree.ca/4573">LearningTree.ca/4573</a>
Intro to Cisco Routers • <i>Course 4574</i> .....	<a href="http://LearningTree.ca/4574">LearningTree.ca/4574</a>
Troubleshooting Switches, VLANs and Routers • <i>Course 4575</i> .....	<a href="http://LearningTree.ca/4575">LearningTree.ca/4575</a>
Simplified IP Address Calculations • <i>Course 4846</i> • <b>NEW!</b> .....	<a href="http://LearningTree.ca/4846">LearningTree.ca/4846</a>



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## Introduction to Networking

**Course 450 • 4 Days**

### YOU WILL LEARN HOW TO:

- Apply fundamental network concepts, terminology and solutions
- Implement networks using data links and physical media
- Deploy Local Area Networks (LANs) using Ethernet and Wi-Fi
- Manage reliable internetworks and intranets using TCP/IP design, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Designing campus network cabling
- Analyzing the frame and packet flow for TCP/IP LANs
- Deploying wired and wireless hosts
- Scaling and selecting Ethernet LAN components, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

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CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/450](http://LearningTree.ca/450) for more dates.

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July 5-8 ..... Toronto	Nov. 8-11 ..... Herndon
Aug. 9-12 ..... New York	Dec. 6-9 ..... Rockville
Sep. 6-9 ..... Ottawa	Jan. 17-20, 2017 ..... Toronto

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## Network Configuration and Troubleshooting

**Course 451 • 4 Days**

### YOU WILL LEARN HOW TO:

- Configure, maintain and troubleshoot multiple network configurations
- Implement VLANs in a switched network
- Access and secure your wireless network
- Manage IP address assignments and subnetting, and more ...

### HANDS-ON EXPERIENCE:

- Diagnosing cable and connection configuration
- Analyzing traffic with Wireshark
- Accessing a switched network
- Implementing VLANs and 802.1X, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
CompTIA CEUs

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Aug. 16-19 ..... Rockville	Jan. 3-6, 2017 ..... Toronto
Sep. 27-30 ..... Ottawa	Feb. 7-10, 2017 ..... Herndon
Oct. 25-28 ..... Rockville	Mar. 28-31, 2017 ..... Ottawa

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## Virtualization Technologies Introduction

**Course 170 • 4 Days**

### YOU WILL LEARN HOW TO:

- Manage VMware and Microsoft Virtual Machine (VM) technologies
- Leverage VMs to build testing, support and training environments
- Partition physical servers to decrease operating costs
- Migrate from physical to virtual machines, and more ...

### HANDS-ON EXPERIENCE:

- Customizing bridged, NAT and host-only virtual networks
- Creating environments for support, testing and training
- Administering virtual servers remotely
- Performing physical to virtual machine migration, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/170](http://LearningTree.ca/170) for more dates.

June 28-July 1 ..... Alexandria	Jan. 10-13, 2017 ..... Rockville
July 26-29 ..... Toronto	Jan. 31-Feb. 3, 2017 .. Toronto
Oct. 4-7 ..... Ottawa	Feb. 7-10, 2017 ..... Ottawa
Nov. 29-Dec. 2 ..... Alexandria	Feb. 21-24, 2017 ..... Herndon

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## Deploying VMware vSphere

**Course 171 • 4 Days**

### YOU WILL LEARN HOW TO:

- Deploy and configure a virtual infrastructure with VMware vSphere
- Allocate networking and storage resources
- Create Direct Attached Storage and Storage Area Network
- Leverage vCenter Server for a secure and efficient IT environment, and more ...

### HANDS-ON EXPERIENCE:

- Creating virtual switches and managing switch policies
- Installing and configuring ESXi 6.0
- Managing ESXi Hosts directly, as well as through vCenter
- Deploying virtual machines with the vSphere Web Client, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/171](http://LearningTree.ca/171) for more dates.

June 28-July 1 ..... Herndon	Dec. 6-9 ..... Herndon
Aug. 30-Sep. 2 ..... New York	Dec. 19-22 ..... New York
Sep. 6-9 ..... Rockville	Jan. 10-13, 2017 ..... Rockville
Oct. 18-21 ..... Herndon	Mar. 14-17, 2017 ..... Herndon

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## Troubleshooting VMware vSphere (5.x)

Course 2701 • 4 Days

### YOU WILL LEARN HOW TO:

- Troubleshoot configuration issues in the vSphere environment
- Exploit built-in graphical and command-line tools for problem analysis
- Optimize CPU resource allocation to mitigate performance issues
- Resolve networking failures within the storage architecture, and more ...

### HANDS-ON EXPERIENCE:

- Utilizing CLI for problem resolution
- Uncovering performance metrics using esxtop
- Analyzing memory management mechanisms
- Troubleshooting vSwitch configuration, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/2701](http://LearningTree.ca/2701) for more dates.

July 26-29.....New York	Dec. 13-16.....Rockville
Aug. 16-19.....Herndon	Feb. 14-17, 2017 .....Herndon
Aug. 23-26.....Rockville	Mar. 7-10, 2017 .....New York
Nov. 8-11.....New York	Apr. 18-21, 2017 .....Rockville

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## Windows Server 2012 Hyper-V Virtualization

Course 2417 • 4 Days

### YOU WILL LEARN HOW TO:

- Virtualize enterprise workloads with Windows Server 2012 Hyper-V
- Create Hyper-V VMs, optimized disks and virtual networks
- Maintain uptime with live migrations, clustering and other high-availability solutions
- Implement a private cloud using SCVMM 2012 R2, and more ...

### HANDS-ON EXPERIENCE:

- Monitoring and troubleshooting Hyper-V servers
- Implementing high availability with clustering and Hyper-V replicas
- Redistributing VMs through storage and live migrations
- Centralizing administration with SCVMM 2012 R2, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/2417](http://LearningTree.ca/2417) for more dates.

July 12-15.....Herndon	Dec. 19-22.....Rockville
Aug. 2-5.....Alexandria	Jan. 17-20, 2017 ...Alexandria
Sep. 20-23.....Ottawa	Mar. 21-24, 2017 .....Ottawa
Oct. 25-28.....Toronto	Apr. 10-13, 2017 .....Toronto

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## Preparing for the CompTIA Network+ Certification Exam

Course 2708 • 5 Days

### YOU WILL LEARN HOW TO:

- Prepare to pass the CompTIA Network+ (N10-006) Certification Exam
- Implement a troubleshooting methodology
- Integrate appropriate security elements to ensure network availability and optimum performance, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Practicing simulated exam questions
- Participating in time-stressed practice exams
- Reinforcing key areas of the CompTIA supplemental exam practice book, and more ...

### TUITION:

Standard **\$3,710**  
GOV **\$3,260**

### EARN:

Certifications,  
CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/2708](http://LearningTree.ca/2708) for more dates.

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Oct. 17-21 .....Rockville	Mar. 6-10, 2017 .....Herndon

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## Integrating Mac OS X in the Enterprise

Course 947 • 4 Days

### YOU WILL LEARN HOW TO:

- Deploy, configure and administer Mac OS X in the enterprise
- Navigate file systems, install applications and run virtual machines
- Integrate LDAP services including Active Directory (AD) and Open Directory (OD)
- Authenticate and manage Mac clients in the AD, and more ...

### HANDS-ON EXPERIENCE:

- Installing and configuring Mac OS X
- Navigating the Mac OS X user interface
- Configuring network components
- Running Windows virtual machines in OS X, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

**SCHEDULE:** Visit [LearningTree.ca/947](http://LearningTree.ca/947) for more dates.

June 28-July 1.....New York	Nov. 8-11 .....Alexandria
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## Interconnecting Cisco Networking Devices Part 1 (ICND1)

**Course 2801 • 5 Days**

### YOU WILL LEARN HOW TO:

- Identify components and describe their functionality within the OSI reference model
- Determine solutions to enhance Ethernet throughput
- Design secure and efficient wireless networks, and more ...

### HANDS-ON EXPERIENCE:

- Exploring the functions of networking
- Configuring Cisco switches
- Performing initial router setup
- Managing Cisco devices, and more ...

### TUITION:

Standard **\$3,710**  
GOV **\$3,260**

### EARN:

CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/2801](http://LearningTree.ca/2801) for more dates.

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## Interconnecting Cisco Networking Devices Part 2 (ICND2)

**Course 2802 • 5 Days**

### YOU WILL LEARN HOW TO:

- Configure networks using the command-line interface
- Build switched networks using VLANs, trunking and Spanning Tree
- Design, implement and troubleshoot Ipv4 routing using the EIGRP and OSPF routing protocols, and more ...

### HANDS-ON EXPERIENCE:

- Configuring expanded switched networks
- Designing simple and complex routing solutions using the OSPF protocol
- Implementing Ipv6 routing using EIGRP and OSPFv3
- Troubleshooting common Ipv4 and Ipv6 Network Connectivity Problems, and more ...

### TUITION:

Standard **\$3,710**  
GOV **\$3,260**

### EARN:

CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/2802](http://LearningTree.ca/2802) for more dates.

Aug. 29-Sep. 2.....Herndon	Apr. 3-7, 2017.....New York
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Feb. 27-Mar. 3, 2017.....Herndon	

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## CCNA Boot Camp (CCNAX)

**Course 2803 • 5 Days**

### YOU WILL LEARN HOW TO:

- Manage the router configuration to perform start-up tasks
- Configure and troubleshoot networks with the command-line interface
- Secure switched networks using VLANs, trunking and Spanning Tree
- Design and troubleshoot enhanced routed WANs using OSPF and EIGRP, and more ...

### HANDS-ON EXPERIENCE:

- Implementing switch security
- Managing remote access sessions
- Creating, applying and troubleshooting ACLs
- Configuring NAT and PAT, and more ...

### TUITION:

Standard **\$3,710**  
GOV **\$3,260**

### EARN:

CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/2803](http://LearningTree.ca/2803) for more dates.

July 11-15.....New York	Nov. 28-Dec. 2.....New York
Aug. 22-26.....New York	Dec. 12-16.....Herndon
Sep. 19-23.....Herndon	Jan. 9-13, 2017.....New York
Oct. 31-Nov. 4.....Herndon	Feb. 13-17, 2017.....New York

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## CompTIA A+ Certification Exam Prep

**Course 445 • 5 Days**

### YOU WILL LEARN HOW TO:

- Prepare to pass the CompTIA A+ 220-801 and 220-802 certification exams
- Apply tools and troubleshooting techniques for PCs and laptops
- Configure and optimize personal computers and laptops
- Evaluate Windows configuration and upgrading options, and more ...

### HANDS-ON EXPERIENCE:

- Mapping the motherboard
- POST and examining the PC BIOS settings
- Setting up a serial ATA hard drive
- Employing Windows command-line tools, and more ...

### TUITION:

Standard **\$3,710**  
GOV **\$3,260**

### EARN:

Certifications,  
CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/445](http://LearningTree.ca/445) for more dates.

July 25-29.....Alexandria	Nov. 28-Dec. 2.....Alexandria
Aug. 15-19.....Herndon	Jan. 9-13, 2017.....Herndon
Sep. 26-30.....Ottawa	Feb. 13-17, 2017.....Rockville
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# Oracle Databases

Visit: [LearningTree.ca/Oracle](http://LearningTree.ca/Oracle)

## RELATIONAL DATABASE FOUNDATION

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## ORACLE DATABASE INTRODUCTION

Oracle Database 12c Introduction • *Course 2226* ..... 5 49

## ORACLE DATABASE ADMINISTRATION

Oracle Database 12c Administration • *Course 2227* ..... 5 49

Oracle Database 12c Backup, Recovery and Server Tuning • *Course 2228* ..... 5 49

## ORACLE DATABASE DEVELOPMENT

Developing SQL Queries for Oracle Databases • *Course 234* ..... 4 50

Oracle PL/SQL Programming • *Course 493* ..... 5 50

Application Development and Tuning for Oracle Databases • *Course 492* ..... 5 50

## 1-DAY BOOT CAMPS — Live, Online via AnyWare™

Introduction to RMAN • *Course 4690* ..... [LearningTree.ca/4690](http://LearningTree.ca/4690)

Oracle Backup and Recovery Strategies • *Course 4692* ..... [LearningTree.ca/4692](http://LearningTree.ca/4692)

Writing Complex PL/SQL with Cursors and Collections • *Course 4693* ..... [LearningTree.ca/4693](http://LearningTree.ca/4693)

Powerful SQL Queries for Oracle • *Course 4694* ..... [LearningTree.ca/4694](http://LearningTree.ca/4694)

Building Dynamic SQL Code with PL/SQL • *Course 4695* ..... [LearningTree.ca/4695](http://LearningTree.ca/4695)

Writing Oracle Procedures • *Course 4699* ..... [LearningTree.ca/4699](http://LearningTree.ca/4699)



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**FREE  
EXAMS!**

## Oracle Database 12c Introduction

Course 2226 • 5 Days

### YOU WILL LEARN HOW TO:

- Build robust and scalable Oracle Database 12c applications
- Write efficient data manipulation statements using SQL Developer
- Create database and external tables, sequences and synonyms
- Ensure data integrity, establish security and enhance performance, and more ...

### HANDS-ON EXPERIENCE:

- Building queries with SQL Developer and SQL\*Plus
- Exploiting joins, set operators, groupings and subqueries
- Designing and developing tables, sequences, views and synonyms
- Implementing business rules with constraints and triggers, and more ...

### TUITION:

Standard **\$3,710**  
GOV **\$3,260**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/2226](http://LearningTree.ca/2226) for more dates.

July 11-15.....Herndon	Nov. 14-18.....Rockville
Aug. 8-12.....New York	Jan. 23-27, 2017 .....New York
Oct. 3-7 .....Toronto	Feb. 27-Mar. 3, 2017 ..Herndon
Oct. 17-21 .....Herndon	Apr. 3-7, 2017 .....Toronto

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## Oracle Database 12c Administration

Course 2227 • 5 Days

### YOU WILL LEARN HOW TO:

- Create, configure and maintain Oracle 12c databases
- Automate database administration using OEM Cloud Control 12c
- Ensure database security by managing user privileges and roles
- Manage storage to optimize space and performance, and more ...

### HANDS-ON EXPERIENCE:

- Building, starting up and shutting down the database
- Creating and maintaining tablespaces
- Administering partitioned objects
- Retrieving lost data from hardware and software failures, and more ...

### TUITION:

Standard **\$3,710**  
GOV **\$3,260**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/2227](http://LearningTree.ca/2227) for more dates.

July 11-15.....Toronto	Dec. 12-16.....Toronto
Aug. 29-Sep. 2 .....Rockville	Jan. 23-27, 2017 .....Rockville
Oct. 3-7 .....Ottawa	Mar. 13-17, 2017 .....Rockville
Oct. 24-28 .....New York	Apr. 3-7, 2017 .....Ottawa

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## Oracle Database 12c Backup, Recovery and Server Tuning

Course 2228 • 5 Days

### YOU WILL LEARN HOW TO:

- Deploy backup and recovery strategies to protect Oracle 12c data
- Implement automated backup and recovery techniques with Recovery Manager (RMAN) and Oracle Enterprise Manager (OEM)
- Configure Data Guard for disaster recovery
- Manage Oracle Database 12c server performance, and more ...

### HANDS-ON EXPERIENCE:

- Configuring a fault-tolerant database
- Backing up and recovering the database using RMAN and OEM
- Establishing and managing a hot standby database
- Scheduling routine jobs to enhance performance, and more ...

### TUITION:

Standard **\$3,710**  
GOV **\$3,260**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/2228](http://LearningTree.ca/2228) for more dates.

July 18-22.....Alexandria	Jan. 9-13, 2017 .....Alexandria
Sep. 12-16.....Toronto	Feb. 13-17, 2017 .....Rockville
Oct. 3-7 .....Rockville	Mar. 20-24, 2017 .....Toronto
Oct. 31-Nov. 4 .....Herndon	Apr. 3-7, 2017 .....Herndon

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## Relational Database Design, Tools and Techniques

Course 382 • 4 Days

### YOU WILL LEARN HOW TO:

- Design, build and use a relational database using proven methods
- Ensure database designs accurately model business requirements
- Normalize and denormalize your data to optimize performance
- Work with integrity constraints, and more ...

### HANDS-ON EXPERIENCE:

- Analyzing and documenting database structures with CASE tools
- Identifying entities, attributes, relationships and their properties
- Reverse-engineering an Oracle database
- Building a database using a data model as a blueprint, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/382](http://LearningTree.ca/382) for more dates.

June 27-30 .....Toronto	Oct. 18-21 .....Toronto
July 26-29.....New York	Nov. 8-11 .....New York
Aug. 23-26.....Rockville	Jan. 31-Feb. 3, 2017 ..Ottawa
Sep. 6-9.....Ottawa	Feb. 28-Mar. 3, 2017 ..Toronto

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## Developing SQL Queries for Oracle Databases

**Course 234 • 4 Days**

### YOU WILL LEARN HOW TO:

- Maximize the potential of SQL to formulate complex queries
- Thoroughly test SQL queries and avoid common errors
- Select the most efficient solution to complex SQL problems
- Leverage the analytical functions of Oracle, and more ...

### HANDS-ON EXPERIENCE:

- Developing and testing queries with SQL Developer or SQL\*Plus
- Handling NULL values in expressions and conditions
- Simplifying expressions with virtual columns
- Joining multiple tables with ANSI standard or Oracle syntax, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/234](http://LearningTree.ca/234) for more dates.

July 19-22..... Herndon	Nov. 15-18..... Ottawa
Aug. 23-26..... Toronto	Feb. 14-17, 2017 ..... Toronto
Sep. 27-30..... Herndon	Mar. 7-10, 2017 ..... Rockville
Oct. 18-21 ..... Alexandria	Apr. 4-7, 2017 ..... Herndon

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## Oracle PL/SQL Programming

**Course 493 • 5 Days**

### YOU WILL LEARN HOW TO:

- Develop efficient PL/SQL programs to access Oracle databases
- Create stored procedures and functions for reuse and maintenance
- Design modular applications using packages
- Manage data retrieval for front-end applications, and more ...

### HANDS-ON EXPERIENCE:

- Encapsulating data manipulation statements in stored procedures
- Performing complex data manipulation with explicit cursors
- Leveraging EXCEPTIONs for graceful handling of runtime errors
- Creating triggers to handle data integrity and derivation, and more ...

### TUITION:

Standard **\$3,710**  
GOV **\$3,260**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/493](http://LearningTree.ca/493) for more dates.

July 11-15..... Ottawa	Nov. 21-25..... Toronto
Aug. 22-26..... Toronto	Jan. 23-27, 2017 ..... Ottawa
Sep. 26-30..... New York	Feb. 13-17, 2017 ..... New York
Oct. 3-7 ..... Ottawa	Mar. 27-31, 2017 ..... Ottawa

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## Application Development and Tuning for Oracle Databases

**Course 492 • 5 Days**

### YOU WILL LEARN HOW TO:

- Design and implement efficient applications while incorporating Oracle features
- Load data into Oracle databases using SQL\*Loader or external tables
- Maintain and secure the database with advanced techniques
- Enhance applications with key Oracle-provided packages, and more ...

### HANDS-ON EXPERIENCE:

- Loading data into an Oracle database
- Automating processing with job scheduling
- Utilizing performance diagnostic tools
- Influencing the cost-based optimizer to improve performance, and more ...

### TUITION:

Standard **\$3,710**  
GOV **\$3,260**

### EARN:

Certifications

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Oct. 17-21 ..... Ottawa	Apr. 24-28, 2017 ..... Ottawa
Nov. 14-18 ..... Herndon	
Dec. 5-9..... Rockville	

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# Python, Perl & C++

Visit: [LearningTree.ca/Python](http://LearningTree.ca/Python)

## PYTHON PROGRAMMING

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## C++ PROGRAMMING

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## 1-DAY BOOT CAMPS — Live, Online via AnyWare™

Introduction to Python for Data Analytics • Course 4509 .....	<a href="http://LearningTree.ca/4509">LearningTree.ca/4509</a>
Modern Perl Fundamentals • Course 4890 .....	<a href="http://LearningTree.ca/4890">LearningTree.ca/4890</a>
Python Fundamentals • Course 4891 .....	<a href="http://LearningTree.ca/4891">LearningTree.ca/4891</a>
C++14 New Features: How Are They More Effective? • Course 5062 • <b>NEW!</b> .....	<a href="http://LearningTree.ca/5062">LearningTree.ca/5062</a>



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**FREE  
EXAMS!**

## Python Programming Introduction

Course 1905 • 4 Days

### YOU WILL LEARN HOW TO:

- Rapidly develop feature-rich applications with Python
- Structure code with classes, functions, modules and OO features
- Access standard and third-party modules and packages
- Develop dynamic, platform-independent GUIs, and more ...

### HANDS-ON EXPERIENCE:

- Handling large data sets with built-in collection types
- Implementing a data-driven web application
- Accessing various data stores with accessors
- Developing reusable modules with functions, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/1905](http://LearningTree.ca/1905) for more dates.

July 5-8.....New York	Dec. 19-22.....Herndon
Aug. 9-12.....Ottawa	Jan. 24-27, 2017 .....Toronto
Sep. 6-9.....Herndon	Feb. 7-10, 2017 .....Herndon
Oct. 4-7.....Toronto	Mar. 28-31, 2017 .....Ottawa

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## Python Best Practices and Design Patterns

Course 1906 • 4 Days

### YOU WILL LEARN HOW TO:

- Employ design patterns and best practices in Python applications
- Apply advanced Python programming features for reliable programs
- Create and manage concurrent threads of control
- Generate and consume REST web service requests and responses, and more ...

### HANDS-ON EXPERIENCE:

- Applying common design patterns to Python programs
- Verifying code correctness with unit tests and mock objects
- Writing REST web services and REST clients
- Detecting errors and debugging Python code, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/1906](http://LearningTree.ca/1906) for more dates.

July 26-29.....Herndon	Dec. 6-9.....New York
Aug. 16-19.....Rockville	Jan. 31-Feb. 3, 2017 ..Herndon
Aug. 30-Sep. 2 .....Alexandria	Mar. 7-10, 2017 .....Rockville
Nov. 1-4.....Herndon	Apr. 18-21, 2017.....Herndon

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## C++ Best Practices and Design Patterns

Course 397 • 4 Days

### YOU WILL LEARN HOW TO:

- Design and implement efficient object-oriented solutions using C++, including the C++11/14 language and library features
- Improve C++ code quality and reusability with design patterns
- Build robust libraries using namespaces, templates and exceptions
- Use the standard C++ library, including STL, and more ...

### HANDS-ON EXPERIENCE:

- Improving code quality using design patterns
- Modifying a poorly structured application to increase flexibility, robustness and efficiency
- Applying all the major components of the STL
- Adding variations to the observer pattern, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

**SCHEDULE:** Visit [LearningTree.ca/397](http://LearningTree.ca/397) for more dates.

June 28-July 1.....New York	Dec. 19-22.....New York
July 26-29.....Herndon	Jan. 17-20, 2017 .....Herndon
Sep. 20-23.....New York	Feb. 21-24, 2017 .....Rockville
Oct. 18-21 .....Herndon	Mar. 21-24, 2017 .....New York

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## Perl 5 Programming Introduction

Course 431 • 4 Days

### YOU WILL LEARN HOW TO:

- Quickly create effective, reusable Perl scripts
- Structure code with user-generated subroutines
- Exploit additional object-oriented packages available on the Internet
- Build scripts that can be used on UNIX, Linux, Windows and MacOS, and more ...

### HANDS-ON EXPERIENCE:

- Parsing and manipulating text with Perl regular expressions
- Reading and writing standard I/O streams and data files
- Extracting and arranging information from multiple files
- Empowering scripts with OO modules, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

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Sep. 6-9.....Herndon	Apr. 4-7, 2017 .....Herndon
Oct. 4-7.....New York	Apr. 25-28, 2017 .....Ottawa
Nov. 7-10 .....Ottawa	
Jan. 31-Feb. 3, 2017..New York	

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# SharePoint

Visit: [LearningTree.ca/SharePoint](http://LearningTree.ca/SharePoint)

## SHAREPOINT INTRODUCTION

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## SHAREPOINT ADMINISTRATION

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## CODE SOLUTIONS FOR DEVELOPERS

Developing Apps for SharePoint 2013 • <i>Course 2616</i> .....	4	54
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## CODE-FREE SOLUTIONS FOR INFORMATION WORKERS

Building Code-Free Solutions for SharePoint 2013 • <i>Course 1534</i> .....	4	55
SharePoint Designer 2013: Workflows & Data-Driven Solutions • <i>Course 1533</i> .....	4	55
Branding and Customizing SharePoint 2013 Sites • <i>Course 1535</i> .....	4	55
Nintex Workflows: Developing Comprehensive Solutions • <i>Course 1538</i> • <b>NEW!</b> .....	3	55
Nintex Forms • <i>Course 1539</i> • <b>NEW!</b> .....	2	56
SharePoint Designer 2010: Building Applications & Workflows • <i>Course 1505</i> .....	4	56
Developing InfoPath Forms for SharePoint • <i>Course 1507</i> .....	3	56

## BUSINESS INTELLIGENCE

Creating Dashboards with SharePoint • <i>Course 1536</i> .....	4	56
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## 1-DAY BOOT CAMPS — *Live, Online via AnyWare™*

SharePoint 2013 Content Management for End Users • <i>Course 4510</i> .....	<a href="http://LearningTree.ca/4510">LearningTree.ca/4510</a>
SharePoint 2010 Content Management for End Users • <i>Course 4511</i> .....	<a href="http://LearningTree.ca/4511">LearningTree.ca/4511</a>
Implementing SharePoint 2013 Workflows • <i>Course 4512</i> .....	<a href="http://LearningTree.ca/4512">LearningTree.ca/4512</a>
Building SharePoint Dashboards with PerformancePoint Services • <i>Course 4514</i> .....	<a href="http://LearningTree.ca/4514">LearningTree.ca/4514</a>
Nintex Workflow • <i>Course 4515</i> .....	<a href="http://LearningTree.ca/4515">LearningTree.ca/4515</a>
SharePoint 2013 Enterprise Search • <i>Course 4516</i> .....	<a href="http://LearningTree.ca/4516">LearningTree.ca/4516</a>
Managing Security for Site Owners • <i>Course 4517</i> .....	<a href="http://LearningTree.ca/4517">LearningTree.ca/4517</a>
Managing SharePoint Publishing Sites for Site Owners • <i>Course 4518</i> .....	<a href="http://LearningTree.ca/4518">LearningTree.ca/4518</a>
Implementing SharePoint Records Management • <i>Course 4519</i> .....	<a href="http://LearningTree.ca/4519">LearningTree.ca/4519</a>
PowerShell® for SharePoint® Administrators • <i>Course 4930</i> .....	<a href="http://LearningTree.ca/4930">LearningTree.ca/4930</a>
SharePoint 2016 New Features: Should I Upgrade? • <i>Course 4932</i> • <b>NEW!</b> .....	<a href="http://LearningTree.ca/4932">LearningTree.ca/4932</a>

## SharePoint 2013 Technologies Introduction

**Course 1531 • 4 Days**

### YOU WILL LEARN HOW TO:

- Create and deploy SharePoint 2013 web applications
- Manage a centralized information repository with controlled access
- Enable apps, workflows and features to automate processes
- Customize a SharePoint site using templates and Web Parts to solve business problems, and more ...

### HANDS-ON EXPERIENCE:

- Creating departmental websites and site collections
- Adding and editing wiki and Web Part pages
- Organizing office documents using list and library apps, and metadata
- Integrating Microsoft Office and working offline, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/1531](http://LearningTree.ca/1531) for more dates.

June 27-30 ..... Toronto	Aug. 16-19 ..... Toronto
July 5-8 ..... Ottawa	Sep. 6-9 ..... Herndon
July 12-15 ..... New York	Sep. 13-16 ..... New York
Aug. 9-12 ..... Rockville	Oct. 18-21 ..... Toronto

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## SharePoint 2010 Technologies Introduction

**Course 1501 • 4 Days**

### YOU WILL LEARN HOW TO:

- Create, manage, customize and deploy SharePoint 2010 applications
- Create a communication repository with controlled access
- Connect and empower people for improved collaboration
- Integrate Microsoft Office 2010 applications with SharePoint 2010, and more ...

### HANDS-ON EXPERIENCE:

- Rapidly deploying SharePoint sites with templates
- Creating lists and libraries
- Automating change requests with workflows
- Consolidating group contacts and schedules with Outlook, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

**SCHEDULE:** Visit [LearningTree.ca/1501](http://LearningTree.ca/1501) for more dates.

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Aug. 2-5 ..... Toronto	Jan. 3-6, 2017 ..... Rockville
Sep. 13-16 ..... Ottawa	Feb. 7-10, 2017 ..... Toronto
Oct. 4-7 ..... New York	Mar. 7-10, 2017 ..... Ottawa

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## Administering SharePoint 2013 Server Farms

**Course 1532 • 4 Days**

### YOU WILL LEARN HOW TO:

- Install, maintain and secure a SharePoint Server 2013 farm
- Administer SharePoint web applications and content databases
- Configure service applications using Central Administration
- Establish claims-based authentication to control access, and more ...

### HANDS-ON EXPERIENCE:

- Installing a new SharePoint 2013 farm and migrating SharePoint 2010 content
- Implementing and configuring an effective search strategy
- Incorporating claims-based authentication into the server farm
- Troubleshooting and resolving issues with the Health Analyzer, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/1532](http://LearningTree.ca/1532) for more dates.

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Aug. 30-Sep. 2 ..... Ottawa	Jan. 31-Feb. 3, 2017 .. Toronto
Sep. 20-23 ..... New York	Mar. 14-17, 2017 ..... Rockville
Oct. 25-28 ..... Herndon	Apr. 18-21, 2017 ..... Ottawa

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## Developing Apps for SharePoint 2013

**Course 2616 • 4 Days**

### YOU WILL LEARN HOW TO:

- Build effective SharePoint 2013 apps with Visual Studio 2012 or 2013
- Create SharePoint-hosted, auto-hosted and provider-hosted apps
- Manipulate site data with JavaScript and .NET Client-Side Object Model and REST
- Design full-page apps and custom app parts for SharePoint 2013, and more ...

### HANDS-ON EXPERIENCE:

- Creating a provider-hosted app with Visual Studio
- Programming the CSOM with .NET and JavaScript
- Designing apps with the SharePoint look and feel
- Integrating enterprise data with Business Connectivity Services, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/2616](http://LearningTree.ca/2616) for more dates.

Aug. 16-19 ..... New York	Jan. 17-20, 2017 ..... Toronto
Sep. 20-23 ..... Toronto	Feb. 14-17, 2017 ..... New York
Oct. 25-28 ..... Ottawa	Mar. 21-24, 2017 ..... Rockville
Dec. 13-16 ..... Herndon	Apr. 25-28, 2017 ..... Ottawa

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## Building Code-Free Solutions for SharePoint 2013

**Course 1534 • 4 Days**

### YOU WILL LEARN HOW TO:

- Build solutions using the extended features of SharePoint 2013
- Manage and organize content for effective collaboration
- Leverage search and social capabilities to increase productivity
- Implement workflows through SharePoint Designer, and more ...

### HANDS-ON EXPERIENCE:

- Authoring and publishing web content to a public site
- Creating a site and adding permissions to secure content
- Building document and record centers for content organization
- Composing workflows in SharePoint Designer, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/1534](http://LearningTree.ca/1534) for more dates.

July 5-8..... Ottawa	Oct. 25-28 .....Toronto
July 26-29.....New York	Nov. 8-11 .....New York
Aug. 16-19.....Alexandria	Dec. 19-22.....Rockville
Sep. 20-23.....Rockville	Jan. 10-13, 2017 ..... Ottawa

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## SharePoint Designer 2013: Workflows & Data-Driven Solutions

**Course 1533 • 4 Days**

### YOU WILL LEARN HOW TO:

- Build SharePoint business solutions with SharePoint Designer 2013
- Develop workflows to automate business processes
- Connect data to SharePoint through Business Connectivity Services
- Incorporate JSON and relational data to integrate disparate systems, and more ...

### HANDS-ON EXPERIENCE:

- Planning and architecting the site taxonomy and components
- Storyboarding multistage workflows with Visual Designer
- Building data-driven parallel workflows with integrated Loops
- Integrating Line-of-Business (LOB) data with the BCS, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/1533](http://LearningTree.ca/1533) for more dates.

July 26-29..... Herndon	Nov. 8-11..... Herndon
Aug. 30-Sep. 2 ..... Ottawa	Dec. 19-22..... Herndon
Sep. 13-16.....New York	Jan. 17-20, 2017 .....New York
Oct. 25-28 .....Toronto	Feb. 14-17, 2017 ..... Ottawa

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## Branding and Customizing SharePoint 2013 Sites

**Course 1535 • 4 Days**

### YOU WILL LEARN HOW TO:

- Customize a SharePoint 2013 site with your company's brand
- Apply rapid changes with Composed Looks, Design Manager and Managed Navigation
- Integrate custom HTML and Cascading Style Sheets (CSS) into Master Pages and page layouts, and more ...

### HANDS-ON EXPERIENCE:

- Designing a fully branded Master Page with custom HTML and CSS
- Developing new page layouts for a publishing site
- Enabling the Content Search Web Part
- Creating a new Device Channel to target multiple devices, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/1535](http://LearningTree.ca/1535) for more dates.

June 28-July 1..... Herndon	Nov. 29-Dec. 2.....New York
July 5-8.....Rockville	Dec. 6-9.....Toronto
Aug. 23-26.....Alexandria	Jan. 3-6, 2017 .....Rockville
Sep. 13-16.....Herndon	Feb. 7-10, 2017 ..... Herndon

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## Nintex Workflows: Developing Comprehensive Solutions

**Course 1538 • 3 Days**

### YOU WILL LEARN HOW TO:

- Build workflows with the Nintex workflow platform
- Configure Nintex actions to automate business practices
- Convert business rules to a workflow process
- Monitor workflow processes via web parts and dashboards, and more ...

### HANDS-ON EXPERIENCE:

- Constructing workflows with actions and conditions
- Integrating actions with lists and libraries, SQL and Active Directory
- Implementing business processes with state machine and Flexi task
- Provisioning SharePoint resources, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

**SCHEDULE:** Visit [LearningTree.ca/1538](http://LearningTree.ca/1538) for more dates.

July 6-8..... Herndon	Nov. 2-4.....New York
Aug. 3-5.....New York	Jan. 4-6, 2017 ..... Herndon
Aug. 17-19.....Rockville	Feb. 1-3, 2017 .....New York
Oct. 5-7 .....Herndon	Apr. 5-7, 2017 ..... Herndon

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## Nintex Forms

**Course 1539 • 2 Days**

### YOU WILL LEARN HOW TO:

- Integrate Nintex forms into SharePoint applications
- Customize default SharePoint forms
- Build intelligent and interactive forms to capture data
- Create forms for a mobile workforce, and more ...

### HANDS-ON EXPERIENCE:

- Designing forms for SharePoint and the mobile experience
- Adding controls and sections to forms
- Tailoring form display and data validation
- Populating controls from external sources, and more ...

### TUITION:

Standard **\$2,225**  
GOV **\$1,950**

**SCHEDULE:** Visit [LearningTree.ca/1539](http://LearningTree.ca/1539) for more dates.

June 27-28 .....New York	Dec. 12-13.....Rockville
July 18-19.....Herndon	Jan. 9-10, 2017 .....New York
Sep. 26-27.....New York	Mar. 6-7, 2017 .....Rockville
Oct. 24-25 .....Herndon	Apr. 10-11, 2017 .....Herndon

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## SharePoint Designer 2010: Building Applications & Workflows

**Course 1505 • 4 Days**

### YOU WILL LEARN HOW TO:

- Build custom business solutions with SharePoint Designer 2010
- Leverage SharePoint Designer features to extend SharePoint sites
- Aggregate SharePoint lists and integrate data to build dashboards
- Manage site content with lists and libraries, and more ...

### HANDS-ON EXPERIENCE:

- Enhancing functionality by editing content and Master Pages
- Creating data views with custom formatting
- Building a dashboard with data from relational data sources utilizing the XSLT List View Web Part
- Streamlining tasks with workflow, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

**SCHEDULE:** Visit [LearningTree.ca/1505](http://LearningTree.ca/1505) for more dates.

July 5-8.....Alexandria	Nov. 1-4.....Alexandria
Aug. 23-26.....Toronto	Jan. 24-27, 2017 ..... Ottawa
Sep. 27-30.....Rockville	Feb. 21-24, 2017 .....Rockville
Oct. 18-21 .....Herndon	Mar. 7-10, 2017 ..... Toronto

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## Developing InfoPath Forms for SharePoint

**Course 1507 • 3 Days**

### YOU WILL LEARN HOW TO:

- Integrate InfoPath forms into SharePoint applications
- Rapidly create dynamic custom forms for deployment to SharePoint
- Build interaction into complex forms without writing code
- Add intelligence to forms with Quick Rules, and more ...

### HANDS-ON EXPERIENCE:

- Designing a form from a pre-existing template
- Adding controls to a blank form
- Validating a form with the Design Checker
- Conditionally formatting fields on a form, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

**SCHEDULE:** Visit [LearningTree.ca/1507](http://LearningTree.ca/1507) for more dates.

July 20-22.....Toronto	Nov. 16-18.....Herndon
Aug. 17-19.....Herndon	Jan. 18-20, 2017 .....Toronto
Sep. 7-9.....Ottawa	Feb. 15-17, 2017 .....Ottawa
Oct. 19-21 .....New York	Mar. 1-3, 2017 .....Rockville

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## Creating Dashboards with SharePoint

**Course 1536 • 4 Days**

### YOU WILL LEARN HOW TO:

- Design and build dashboards in SharePoint Server
- Build Business Intelligence content with Dashboard Designer
- Integrate Excel worksheets and chart data
- Develop KPIs with PerformancePoint Services, and more ...

### HANDS-ON EXPERIENCE:

- Creating Power Pivots with Excel
- Deploying reports to a SharePoint Reports Library
- Generating scorecards and dashboards with PerformancePoint Services
- Filtering BI data to provide "What If" analysis, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/1536](http://LearningTree.ca/1536) for more dates.

June 28-July 1.....Herndon	Nov. 15-18.....Herndon
July 5-8.....Rockville	Dec. 19-22.....New York
Sep. 13-16.....Toronto	Jan. 10-13, 2017 .....Herndon
Oct. 25-28 .....Rockville	Mar. 14-17, 2017 .....Toronto

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## SharePoint Information Architecture and Governance

**Course 1537 • 4 Days**

### YOU WILL LEARN HOW TO:

- Design and implement a robust SharePoint information architecture and governance plan
- Build scalable architectural frameworks for business growth
- Extend SharePoint functionality in a controlled manner
- Establish roles and responsibilities for your governance team, and more ...

### HANDS-ON EXPERIENCE:

- Constructing a content migration plan
- Defining site columns, content types and configuring metadata term sets
- Architecting robust and scalable security
- Modeling a site collection's hierarchy, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/1537](http://LearningTree.ca/1537) for more dates.

Aug. 2-5.....	Herndon	Jan. 10-13, 2017 .....	Herndon
Oct. 18-21 .....	Toronto	Feb. 7-10, 2017 .....	Herndon
Nov. 7-10 .....	Ottawa	Mar. 14-17, 2017 .....	Herndon
Dec. 6-9 .....	Rockville	Apr. 4-7, 2017 .....	Toronto

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[LearningTree.ca/Certifications](http://LearningTree.ca/Certifications)

**“ By achieving my SharePoint Certification, my level of expertise has increased significantly. Each course provided me with new and exciting tools I can use DAILY! ”**

— S. Cope, Compliance Analyst  
Depository Trust and Clearing Corp



# SQL Server

Visit: [LearningTree.ca/SQL](http://LearningTree.ca/SQL)

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Creating Analytical SQL Queries for SQL Server • *Course 4552* ..... [LearningTree.ca/4552](http://LearningTree.ca/4552)

SQL Server DBA Essentials • *Course 4553* ..... [LearningTree.ca/4553](http://LearningTree.ca/4553)

Introduction to SQL Server BI Tools & Strategies • *Course 4554* ..... [LearningTree.ca/4554](http://LearningTree.ca/4554)

Data Migration with SQL Server Integration Services • *Course 4555* ..... [LearningTree.ca/4555](http://LearningTree.ca/4555)

Report Development with SQL Server Reporting Services • *Course 4556* ..... [LearningTree.ca/4556](http://LearningTree.ca/4556)

Powerful SQL Queries for SQL Server • *Course 4559* ..... [LearningTree.ca/4559](http://LearningTree.ca/4559)

Designing Reports with Report Builder • *Course 4560* ..... [LearningTree.ca/4560](http://LearningTree.ca/4560)

Modeling a Data Warehouse • *Course 4561* ..... [LearningTree.ca/4561](http://LearningTree.ca/4561)

Building a Data Warehouse • *Course 4562* ..... [LearningTree.ca/4562](http://LearningTree.ca/4562)

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MDX Query Fundamentals • *Course 4567* ..... [LearningTree.ca/4567](http://LearningTree.ca/4567)

## SQL Programming Language Introduction

**Course 925 • 3 Days**

### YOU WILL LEARN HOW TO:

- Write SQL code based on ANSI/ISO standards to build Microsoft SQL Server or Oracle database structures
- Update database content with SQL and transaction handling
- Retrieve data with filter conditions and from multiple tables using various types of join, and more ...

### HANDS-ON EXPERIENCE:

- Creating and modifying tables, constraints and indexes
- Modifying table contents
- Retrieving data from tables
- Applying conditions to filter retrieved rows, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

**SCHEDULE:** Visit [LearningTree.ca/925](http://LearningTree.ca/925) for more dates.

July 13-15..... Ottawa	Nov. 16-18.....Rockville
Aug. 3-5.....New York	Dec. 14-16..... Ottawa
Sep. 7-9..... Toronto	Jan. 25-27, 2017 ..... Toronto
Oct. 5-7 ..... Ottawa	Mar. 8-10, 2017 ..... Ottawa

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## SQL Server Introduction

**Course 2107 • 4 Days**

### YOU WILL LEARN HOW TO:

- Create and administer SQL Server 2012 or 2014 databases
- Write Transact-SQL queries to retrieve and manipulate data
- Secure, back up and monitor databases with Management Studio
- Integrate SQL Server with Microsoft Office, and more ...

### HANDS-ON EXPERIENCE:

- Constructing tables and protecting data with constraints
- Retrieving and modifying data with SQL
- Moving data with the import/export utility
- Automating tasks with the Maintenance Plan Wizard, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/2107](http://LearningTree.ca/2107) for more dates.

June 28-July 1 .....Rockville	Oct. 11-14 ..... Toronto
July 26-29.....New York	Nov. 7-10..... Ottawa
Aug. 16-19..... Herndon	Dec. 13-16.....New York
Sep. 6-9.....New York	Jan. 10-13, 2017 ..... Toronto

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## SQL Server Database Administration

**Course 2108 • 4 Days**

### YOU WILL LEARN HOW TO:

- Administer SQL Server 2012 and 2014 with SQL Server Management Studio and Transact-SQL
- Ensure SQL Server security with logins, roles, users and permissions
- Develop backup strategies and recover from disasters
- Leverage SQL Server Agent to automate administrative tasks, and more ...

### HANDS-ON EXPERIENCE:

- Employing Transact-SQL and the graphical tools
- Upgrading SQL Server 2005 and 2008 databases
- Implementing security for logins, databases and objects
- Restoring a database to point-of-failure, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/2108](http://LearningTree.ca/2108) for more dates.

June 27-30 ..... Ottawa	Nov. 22-25 ..... Toronto
Aug. 16-19.....New York	Dec. 19-22.....Rockville
Sep. 6-9..... Toronto	Jan. 24-27, 2017 ..... Toronto
Oct. 11-14 ..... Ottawa	Feb. 7-10, 2017 ..... Ottawa

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## SQL Server 2012: Administration Skills Upgrade

**Course 2105 • 3 Days**

### YOU WILL LEARN HOW TO:

- Leverage the new SQL Server 2012 administrative features
- Build database high-availability solutions with AlwaysOn groups
- Implement user-defined server roles to delegate responsibilities
- Resolve performance problems by examining waits, and more ...

### HANDS-ON EXPERIENCE:

- Migrating databases to SQL Server 2012
- Leveraging the new features in Management Studio
- Configuring AlwaysOn availability groups
- Defining SQL Server Audits, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

**SCHEDULE:** Visit [LearningTree.ca/2105](http://LearningTree.ca/2105) for more dates.

June 28-30 ..... Ottawa	Nov. 16-18 .....New York
July 20-22..... Toronto	Nov. 23-25 ..... Ottawa
Aug. 17-19.....Chicago	Jan. 25-27, 2017 ..... Toronto
Oct. 26-28 ..... Toronto	

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## SQL Server High Availability

Course 141 • 3 Days

### YOU WILL LEARN HOW TO:

- Leverage SQL Server technologies to achieve high-availability solutions
- Design a service level agreement that matches business requirements
- Plan, prepare and install a SQL Server failover cluster
- Mirror a database to ensure instant failover, and more ...

### HANDS-ON EXPERIENCE:

- Identifying availability requirements
- Installing a SQL Server failover cluster
- Backing up and restoring databases with advanced features
- Maintaining a warm standby server, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/141](http://LearningTree.ca/141) for more dates.

July 6-8.....New York	Nov. 2-4 .....New York
Aug. 3-5.....Toronto	Dec. 7-9.....Toronto
Sep. 28-30.....Rockville	Feb. 15-17, 2017 ..... Ottawa
Oct. 26-28 ..... Ottawa	Mar. 15-17, 2017 .....Toronto

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## SQL Server Transact-SQL Programming

Course 532 • 4 Days

### YOU WILL LEARN HOW TO:

- Develop scalable, distributed applications with Transact-SQL to meet organizational requirements
- Create modular code with stored procedures and formulate triggers
- Develop reusable code with scalar- and table-valued functions
- Handle Transact-SQL runtime errors to create robust software, and more ...

### HANDS-ON EXPERIENCE:

- Adding a column to a database table using ALTER TABLE
- Passing data into a stored procedure using parameters
- Intercepting errors with TRY...CATCH
- Calling a user-defined function in a SQL statement, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/532](http://LearningTree.ca/532) for more dates.

June 28-July 1 .....Alexandria	Nov. 1-4 .....Toronto
Aug. 2-5.....New York	Dec. 19-22 ..... Ottawa
Sep. 13-16.....Rockville	Jan. 24-27, 2017 .....New York
Oct. 11-14 .....Alexandria	Feb. 21-24, 2017 .....Herndon

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## Developing SQL Queries for SQL Server

Course 534 • 4 Days

### YOU WILL LEARN HOW TO:

- Develop complex and robust SQL queries, test queries and avoid common pitfalls
- Leverage SQL to apply best practices for solving problems
- Query multiple tables with inner joins, outer joins and self-joins
- Transform data with built-in functions, and more ...

### HANDS-ON EXPERIENCE:

- Handling NULL values in expressions and conditions
- Implementing self-joins and coding inner and outer joins
- Computing aggregate results
- Employing ranking and analytic functions, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/534](http://LearningTree.ca/534) for more dates.

June 28-July 1 .....New York	Oct. 25-28 ..... Ottawa
July 12-15.....Ottawa	Nov. 7-10.....Toronto
Aug. 2-5.....Rockville	Dec. 13-16 ..... Ottawa
Sep. 13-16.....Toronto	Jan. 17-20, 2017 .....Herndon

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## Developing High-Performance SQL Server Databases

Course 535 • 5 Days

### YOU WILL LEARN HOW TO:

- Implement a high-performance SQL Server database solution
- Leverage SQL Server core components to maintain critical data
- Ensure query plan reuse
- Build transactions that maximize concurrency and minimize contention, and more ...

### HANDS-ON EXPERIENCE:

- Monitoring and analyzing performance
- Setting up a server-side Profiler trace
- Examining index architecture
- Eliminating extent fragmentation, and more ...

### TUITION:

Standard **\$3,710**  
GOV **\$3,260**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/535](http://LearningTree.ca/535) for more dates.

July 11-15.....Toronto	Jan. 23-27, 2017 ..... Herndon
Aug. 22-26.....Ottawa	Feb. 13-17, 2017 ..... Toronto
Oct. 17-21 .....New York	Mar. 20-24, 2017 ..... Ottawa
Nov. 14-18 .....Toronto	Apr. 24-28, 2017 ..... Toronto

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## SQL Server Reporting Services

Course 140 • 4 Days

### YOU WILL LEARN HOW TO:

- Leverage SSRS to extract Business Intelligence from your data
- Produce reports with enhanced visualization features
- Integrate parameters, filters and interactive components into reports
- Deploy reports through Report Server and SharePoint, and more ...

### HANDS-ON EXPERIENCE:

- Producing customized reports with expressions
- Employing Tablix to produce new report formats
- Leveraging advanced reporting charts
- Creating cached instances, snapshots and subscriptions, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

**SCHEDULE:** Visit [LearningTree.ca/140](http://LearningTree.ca/140) for more dates.

June 28-July 1 ..... New York	Oct. 11-14 ..... New York
July 19-22 ..... Toronto	Nov. 1-4 ..... Toronto
Aug. 23-26 ..... Toronto	Dec. 13-16 ..... Toronto
Sep. 13-16 ..... Ottawa	Jan. 3-6, 2017 ..... Ottawa

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## SQL Server Integration Services for Business Intelligence

Course 134 • 4 Days

### YOU WILL LEARN HOW TO:

- Solve data management problems by migrating and processing data
- Perform nonstandard imports and exports using the Script component
- Assemble tasks to perform complex data migrations
- Enhance package functionality with scripting, and more ...

### HANDS-ON EXPERIENCE:

- Implementing loops to import multiple files
- Converting data among heterogeneous sources
- Manipulating package variables with scripting
- Handling errors and managing exception rows, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

**SCHEDULE:** Visit [LearningTree.ca/134](http://LearningTree.ca/134) for more dates.

June 27-30 ..... Toronto	Oct. 25-28 ..... New York
July 19-22 ..... Herndon	Nov. 7-10 ..... Toronto
Aug. 2-5 ..... Toronto	Dec. 19-22 ..... Ottawa
Sep. 13-16 ..... Ottawa	Jan. 3-6, 2017 ..... Toronto

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## SQL Server Analysis Services for Business Intelligence

Course 139 • 4 Days

### YOU WILL LEARN HOW TO:

- Leverage SQL Server Analysis Services to produce BI solutions
- Create OLAP cubes and automate maintenance with XMLA scripts
- Extend hierarchies and exploit advanced dimension relationships
- Build custom solutions with MDX, and more ...

### HANDS-ON EXPERIENCE:

- Creating and deploying a cube
- Building aggregations with the Aggregation Design Wizard
- Automating cube processing with an XMLA script
- Configuring many-to-many dimension relationships, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/139](http://LearningTree.ca/139) for more dates.

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Aug. 9-12 ..... Ottawa	Jan. 3-6, 2017 ..... Toronto
Sep. 27-30 ..... Toronto	Feb. 7-10, 2017 ..... Toronto
Oct. 11-14 ..... New York	Mar. 14-17, 2017 ..... Toronto

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## Designing an Effective Data Warehouse

Course 2191 • 4 Days

### YOU WILL LEARN HOW TO:

- Deploy and maintain a data warehousing project
- Apply dimensional modeling of the business process to evaluate data
- Profile data to ensure source data quality
- Extract, transform and load operational data, and more ...

### HANDS-ON EXPERIENCE:

- Matching business processes to dimensions
- Designing facts and dimensions
- Completing a database design using a modeling tool
- Forward engineering a database from a logical model, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/2191](http://LearningTree.ca/2191) for more dates.

July 5-8 ..... Toronto	Dec. 13-16 ..... Toronto
Aug. 23-26 ..... Ottawa	Jan. 10-13, 2017 ..... Ottawa
Sep. 20-23 ..... Herndon	Feb. 21-24, 2017 ..... Rockville
Nov. 7-10 ..... Ottawa	Mar. 14-17, 2017 ..... Toronto

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## SQL Server 2014 Performance Enhancements

Course 2111 • 3 Days

### YOU WILL LEARN HOW TO:

- Leverage SQL Server 2014 performance enhancements
- Create and modify In-Memory tables for high performance OLTP
- Build native compiled stored procedures for efficient execution
- Improve performance by implementing delayed durability, and more ...

### HANDS-ON EXPERIENCE:

- Configuring the buffer pool to extend onto solid state drives (SSD)
- Contrasting In-Memory and disk-based table performance
- Developing native stored procedures
- Enabling incremental statistics for partitioned tables, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/2111](http://LearningTree.ca/2111) for more dates.

July 6-8.....New York	Mar. 8-10, 2017 ..... Alexandria
Sep. 14-16.....New York	
Oct. 12-14 ..... Alexandria	
Feb. 15-17, 2017 ..... New York	

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## Microsoft Tools for Business Intelligence

Course 146 • 4 Days

### YOU WILL LEARN HOW TO:

- Deliver Business Intelligence solutions with SharePoint Services
- Create KPIs and dashboards using PerformancePoint Services
- Integrate data using SQL Server Integration Services
- Easily consolidate data with SQL Server Analysis Services, and more ...

### HANDS-ON EXPERIENCE:

- Delivering ad hoc reports through SharePoint Excel Services
- Building a scorecard and dashboard with PerformancePoint Services
- Creating a KPI within a cube
- Smart-analyzing data with Power Pivot and DAX expressions, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

**SCHEDULE:** Visit [LearningTree.ca/146](http://LearningTree.ca/146) for more dates.

July 5-8.....Toronto	Nov. 22-25 ..... Ottawa
Oct. 4-7 .....New York	Jan. 31-Feb. 3, 2017 .. Ottawa
Oct. 25-28 ..... Herndon	Feb. 21-24, 2017 ..... Toronto
Nov. 1-4 ..... Toronto	Mar. 21-24, 2017 ..... New York

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### SQL Server

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- ▶ Database Administration
- ▶ Business Intelligence
- ▶ Application Development
- ▶ Database Design

***I pursued Learning Tree Certification because it shows that I have received extensive IT training, and that I have attained a level deemed suitable for a certification. Both of these points have been useful to me in my past and current employment opportunities.***

**NOTE: All Certification Exams are FREE!**

— M. Leighton, Network Administrator  
NATO

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# Web Development

Visit: [LearningTree.ca/WebDev](http://LearningTree.ca/WebDev)

## WEB DEVELOPMENT

	NUMBER OF DAYS	PAGE
Developing a Website • <i>Course 470</i> .....	4	<b>64</b>
JavaScript for Modern Web Development • <i>Course 2319</i> .....	4	<b>64</b>
XML Introduction • <i>Course 542</i> .....	4	<b>64</b>
ECMAScript Programming: The Next Generation JavaScript • <i>Course 2323</i> • <b>NEW!</b> .....	4	<b>65</b>
jQuery Introduction • <i>Course 1610</i> .....	4	<b>65</b>
Building Web Applications with AngularJS • <i>Course 2321</i> .....	4	<b>66</b>
Building Web Applications with React • <i>Course 2322</i> .....	4	<b>66</b>

## RESPONSIVE WEB DESIGN

HTML5 Web Development with CSS3 and JavaScript • <i>Course 2320</i> .....	4	<b>64</b>
Mobile & Responsive Web Design • <i>Course 2315</i> .....	3	<b>65</b>
CSS3 for Responsive Web Design • <i>Course 522</i> .....	4	<b>65</b>

## 1-DAY BOOT CAMPS — Live, Online via AnyWare™

Improving Usability, Accessibility & SEO with HTML5 • <i>Course 4540</i> .....	<a href="http://LearningTree.ca/4540">LearningTree.ca/4540</a>
Programming Graphics & Multimedia in HTML5 & CSS3 • <i>Course 4541</i> .....	<a href="http://LearningTree.ca/4541">LearningTree.ca/4541</a>
Getting Started with HTML • <i>Course 4542</i> .....	<a href="http://LearningTree.ca/4542">LearningTree.ca/4542</a>
Developing Offline Applications with HTML5 • <i>Course 4543</i> .....	<a href="http://LearningTree.ca/4543">LearningTree.ca/4543</a>
Getting to Know AngularJS • <i>Course 4544</i> .....	<a href="http://LearningTree.ca/4544">LearningTree.ca/4544</a>
Harnessing AngularJS Services • <i>Course 4545</i> .....	<a href="http://LearningTree.ca/4545">LearningTree.ca/4545</a>
Constructing AngularJS Animations and Interactive UIs • <i>Course 4546</i> .....	<a href="http://LearningTree.ca/4546">LearningTree.ca/4546</a>
Fundamentals of jQuery • <i>Course 4547</i> .....	<a href="http://LearningTree.ca/4547">LearningTree.ca/4547</a>
Configuring a Web Server • <i>Course 4548</i> .....	<a href="http://LearningTree.ca/4548">LearningTree.ca/4548</a>
Getting Started Generating and Designing XML Documents • <i>Course 4549</i> .....	<a href="http://LearningTree.ca/4549">LearningTree.ca/4549</a>
Designing Web Application User Interfaces with Bootstrap • <i>Course 4731</i> .....	<a href="http://LearningTree.ca/4731">LearningTree.ca/4731</a>
Developing REST Services for MEAN Applications • <i>Course 4732</i> .....	<a href="http://LearningTree.ca/4732">LearningTree.ca/4732</a>
Adding Interactivity and Visual Effects with jQuery UI • <i>Course 4733</i> .....	<a href="http://LearningTree.ca/4733">LearningTree.ca/4733</a>
Creating Websites Supporting Mobile Devices with jQuery Mobile • <i>Course 4734</i> .....	<a href="http://LearningTree.ca/4734">LearningTree.ca/4734</a>
Getting Started with Backbone.js • <i>Course 4735</i> .....	<a href="http://LearningTree.ca/4735">LearningTree.ca/4735</a>
Fundamentals of Ember.js • <i>Course 4736</i> .....	<a href="http://LearningTree.ca/4736">LearningTree.ca/4736</a>
Drupal Essentials • <i>Course 4737</i> .....	<a href="http://LearningTree.ca/4737">LearningTree.ca/4737</a>
Building Directives with AngularJS • <i>Course 4738</i> .....	<a href="http://LearningTree.ca/4738">LearningTree.ca/4738</a>

## Developing a Website

**Course 470 • 4 Days**

### YOU WILL LEARN HOW TO:

- Establish, configure and maintain an intranet or Internet website
- Develop web pages using HTML and CSS
- Configure a web server and implement server-side scripting
- Interface a website to a database for the dynamic storage and retrieval of data, and more ...

### HANDS-ON EXPERIENCE:

- Creating modern web pages with HTML5, CSS/CSS3
- Leveraging HTML5 for a dynamic user experience
- Adding DHTML effects to web pages
- Enhancing web pages with images, lists, tables, forms and menus, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/470](http://LearningTree.ca/470) for more dates.

July 5-8.....New York	Nov. 15-18.....Toronto
Aug. 16-19.....Ottawa	Jan. 3-6, 2017.....New York
Sep. 13-16.....Herndon	Feb. 21-24, 2017.....Ottawa
Oct. 11-14.....Rockville	Mar. 28-31, 2017.....Herndon

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## JavaScript for Modern Web Development

**Course 2319 • 4 Days**

### YOU WILL LEARN HOW TO:

- Write and debug client-side JavaScript to create modern pages for a variety of modern devices
- Implement dynamic HTML effects to improve interactivity and SEO
- Apply unobtrusive JavaScript programming patterns, and more ...

### HANDS-ON EXPERIENCE:

- Creating a reusable, take-home JavaScript library
- Dynamically building a table of contents and adding it to pages
- Leveraging third-party libraries to implement Ajax functionality
- Accessing user location with mapping and HTML5 geolocation APIs, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/2319](http://LearningTree.ca/2319) for more dates.

July 19-22.....Ottawa	Nov. 29-Dec. 2.....Ottawa
Aug. 30-Sep. 2.....Toronto	Dec. 6-9.....Herndon
Sep. 6-9.....New York	Jan. 10-13, 2017.....New York
Oct. 11-14.....Ottawa	Feb. 21-24, 2017.....Ottawa

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## XML Introduction

**Course 542 • 4 Days**

### YOU WILL LEARN HOW TO:

- Leverage the power of Extensible Markup Language (XML) and related technologies
- Modify and search XML documents using the DOM and XQuery
- Transform XML documents and apply presentation styles with XSL
- Ensure XML data conforms to design requirements using schemas, and more ...

### HANDS-ON EXPERIENCE:

- Creating well-formed Extensible Markup Language documents
- Searching XML documents with XQuery
- Designing XML documents based on business requirements
- Reading and creating XML documents using the DOM, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

**SCHEDULE:** Visit [LearningTree.ca/542](http://LearningTree.ca/542) for more dates.

July 19-22.....Ottawa	Dec. 6-9.....Ottawa
Sep. 13-16.....Herndon	Mar. 7-10, 2017.....Ottawa
Oct. 4-7.....Ottawa	Mar. 14-17, 2017.....Herndon
Oct. 18-21.....Toronto	Apr. 25-28, 2017.....Herndon

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## HTML5 Web Development with CSS3 and JavaScript

**Course 2320 • 4 Days**

### YOU WILL LEARN HOW TO:

- Leverage HTML5 to create modern, feature-rich sites
- Improve SEO/a11y with semantic elements and microdata
- Design professional, eye-catching presentations with CSS3
- Program rich Internet applications with JavaScript APIs, and more ...

### HANDS-ON EXPERIENCE:

- Improving semantics, accessibility and SEO with markup
- Preventing input errors with validation and pickers
- Modernizing with borders, shadows, fonts and media queries
- Customizing the user experience with JavaScript programming, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/2320](http://LearningTree.ca/2320) for more dates.

June 27-30.....Ottawa	Dec. 6-9.....Alexandria
Aug. 30-Sep. 2.....Rockville	Jan. 3-6, 2017.....Ottawa
Sep. 6-9.....Toronto	Feb. 28-Mar. 3, 2017.....Ottawa
Nov. 15-18.....Toronto	Mar. 21-24, 2017.....Toronto

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## Mobile & Responsive Web Design

Course 2315 • 3 Days

### YOU WILL LEARN HOW TO:

- Design and build mobile-first and responsive websites targeted for mobile devices
- Write compelling HTML5, CSS and JavaScript content for mobile users
- Build cross-platform mobile applications
- Efficiently deliver content over low-bandwidth links, and more ...

### HANDS-ON EXPERIENCE:

- Architecting modern cross-platform mobile websites that run on multiple browsers
- Building responsive websites with flexible grids and media queries
- Producing and managing forms and events with jQuery mobile
- Creating cross-platform hybrid mobile apps with PhoneGap, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN:

Certifications,  
CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/2315](http://LearningTree.ca/2315) for more dates.

July 13-15..... Herndon	Nov. 23-25..... Toronto
Aug. 3-5..... Toronto	Dec. 7-9..... Ottawa
Sep. 28-30..... Rockville	Jan. 25-27, 2017 ..... Rockville
Oct. 12-14 ..... Herndon	Feb. 15-17, 2017 ..... Toronto

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## CSS3 for Responsive Web Design

Course 522 • 4 Days

### YOU WILL LEARN HOW TO:

- Design Responsive Web Content using Cascading Style Sheets (CSS3)
- Implement new CSS3 syntax into your legacy applications
- Build responsive and accessible web forms
- Enhance Responsive Web Design (RWD) with jQuery plugins, and more ...

### HANDS-ON EXPERIENCE:

- Employ CSS syntax and semantics
- Create responsive column layout with flexbox
- Ensure compliance with Web Consortium Accessibility Guidelines (WCAG)
- Develop mobile-first web page designs, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/522](http://LearningTree.ca/522) for more dates.

July 5-8..... New York	Dec. 13-16..... Ottawa
Aug. 23-26..... Toronto	Jan. 24-27, 2017 ..... Herndon
Sep. 27-30..... New York	Feb. 7-10, 2017 ..... Toronto
Nov. 15-18..... Herndon	Mar. 28-31, 2017 ..... Rockville

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## ECMAScript Programming: The Next Generation JavaScript

Course 2323 • 4 Days

### YOU WILL LEARN HOW TO:

- Transition from JavaScript to ECMAScript 2015 and 2016
- Maximize reusability with modules, classes and inheritance
- Simplify asynchronous programming with Promises
- Leverage ECMAScript server-side with Node.js, and more ...

### HANDS-ON EXPERIENCE:

- Transpiling and debugging ES2015 code
- Replacing anonymous functions with arrows
- Converting event handlers to Promises
- Encapsulating functionality with modules, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

**SCHEDULE:** Visit [LearningTree.ca/2323](http://LearningTree.ca/2323) for more dates.

July 5-8..... New York	Nov. 1-4..... Herndon
Aug. 2-5..... Herndon	Dec. 19-22..... Rockville
Sep. 13-16..... Rockville	Jan. 3-6, 2017 ..... New York
Oct. 11-14 ..... New York	Mar. 14-17, 2017 ..... Rockville

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## jQuery Introduction

Course 1610 • 4 Days

### YOU WILL LEARN HOW TO:

- Rapidly develop dynamic Web 2.0 applications with jQuery, HTML, CSS and Ajax
- Create browser-independent, rich client interfaces
- Enhance HTML forms to use jQuery validation and call web services
- Develop and integrate plugins and incorporate UI components, and more ...

### HANDS-ON EXPERIENCE:

- Traversing and manipulating the DOM with CSS selectors
- Creating simple and complex animations
- Efficient client-side caching with Promises and \$.when().then()
- Validating HTML forms with jQuery and plugins, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/1610](http://LearningTree.ca/1610) for more dates.

July 19-22..... Ottawa	Nov. 22-25..... Ottawa
Aug. 30-Sep. 2 ..... Alexandria	Dec. 13-16..... Toronto
Sep. 27-30..... Toronto	Jan. 3-6, 2017 ..... New York
Oct. 4-7 ..... New York	Mar. 14-17, 2017 ..... Ottawa

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## Building Web Applications with AngularJS

Course 2321 • 4 Days

### YOU WILL LEARN HOW TO:

- Build a complete AngularJS Single Page Web Application
- Craft the User Interface with templates, directives and filters
- Code controllers with JavaScript and bind data to templates
- Develop data-bound forms to perform CRUD access, and more ...

### HANDS-ON EXPERIENCE:

- Creating dynamic data-driven HTML5 layouts, templates and views
- Coding loosely-coupled modules, controllers and services with JavaScript
- Leveraging two-way data binding against RESTful web services
- Producing reusable custom AngularJS directives, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

**SCHEDULE:** Visit [LearningTree.ca/2321](http://LearningTree.ca/2321) for more dates.

July 5-8.....New York	Nov. 29-Dec. 2.....Ottawa
Aug. 9-12.....Toronto	Dec. 13-16.....Herndon
Sep. 27-30.....Ottawa	Jan. 31-Feb. 3, 2017 ..Ottawa
Oct. 25-28 .....Herndon	Feb. 7-10, 2017 .....Toronto

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## Building Web Applications with React

Course 2322 • 4 Days

### YOU WILL LEARN HOW TO:

- Create an isomorphic web application using Facebook React and Flux
- Compose the User Interface using React JavaScript and JSX components
- Code interactive React components using properties and state
- Integrate React forms with Ajax and backend REST services, and more ...

### HANDS-ON EXPERIENCE:

- Designing a dynamic data-driven UI with React components
- Rendering a React application on the server and client
- Connecting React-enhanced forms to REST service data
- Coding Flux stores and actions to leverage unidirectional data flow, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

**SCHEDULE:** Visit [LearningTree.ca/2322](http://LearningTree.ca/2322) for more dates.

Aug. 9-12.....Herndon	Dec. 13-16.....Rockville
Sep. 20-23.....Rockville	Jan. 24-27, 2017 .....Herndon
Oct. 25-28 .....New York	Feb. 28-Mar. 3, 2017..New York
Nov. 15-18 .....Herndon	Mar. 21-24, 2017 .....Rockville

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— Q. Thompson, Contact Centre Designer  
Orange Communications SA/AG

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# Windows Systems

Visit: [LearningTree.ca/Windows](http://LearningTree.ca/Windows)

## WINDOWS DESKTOP

	NUMBER OF DAYS	PAGE
Windows 10: Configuration and Support • <i>Course 2420</i> .....	4	<b>68</b>
Windows 8 Introduction • <i>Course 2404</i> .....	4	<b>68</b>
Deploying and Managing Windows • <i>Course 2401</i> .....	4	<b>68</b>

## WINDOWS SERVER

Windows Server 2012 Introduction • <i>Course 2410</i> .....	4	<b>68</b>
Windows Server 2012 Administration • <i>Course 2411</i> .....	4	<b>69</b>
Windows Server 2012 Active Directory Domain Services • <i>Course 2412</i> .....	4	<b>69</b>
Microsoft Azure Infrastructure Services • <i>Course 2413</i> .....	4	<b>69</b>
System Centre 2012 Configuration Manager Introduction • <i>Course 2415</i> .....	5	<b>69</b>
IIS 8.0/8.5 for Windows Server 2012 • <i>Course 2416</i> .....	4	<b>70</b>
Windows PowerShell: Automating Administrative Tasks • <i>Course 969</i> .....	4	<b>70</b>
Windows Server Group Policy Management • <i>Course 963</i> .....	4	<b>70</b>
Microsoft System Center 2012 Technologies • <i>Course 2414</i> • 4 Days .....		<a href="http://LearningTree.ca/2414">LearningTree.ca/2414</a>

## MICROSOFT UNIFIED COMMUNICATIONS

Planning, Deploying and Managing Exchange Server 2013 • <i>Course 2502</i> .....	5	<b>70</b>
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## 1-DAY BOOT CAMPS — *Live, Online via AnyWare™*

The Power of PowerShell • <i>Course 4670</i> .....	<a href="http://LearningTree.ca/4670">LearningTree.ca/4670</a>
Advanced PowerShell Scripting • <i>Course 4672</i> .....	<a href="http://LearningTree.ca/4672">LearningTree.ca/4672</a>
Microsoft Deployment Toolkit (MDT) • <i>Course 4673</i> .....	<a href="http://LearningTree.ca/4673">LearningTree.ca/4673</a>
Microsoft Dynamics CRM • <i>Course 4674</i> .....	<a href="http://LearningTree.ca/4674">LearningTree.ca/4674</a>
Introduction to Windows Security • <i>Course 4675</i> .....	<a href="http://LearningTree.ca/4675">LearningTree.ca/4675</a>
Securing the Windows File System • <i>Course 4676</i> .....	<a href="http://LearningTree.ca/4676">LearningTree.ca/4676</a>
Active Directory Federation Services (ADFS) • <i>Course 4678</i> .....	<a href="http://LearningTree.ca/4678">LearningTree.ca/4678</a>
Windows 10: What's New • <i>Course 4908</i> .....	<a href="http://LearningTree.ca/4908">LearningTree.ca/4908</a>



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## Windows 10: Configuration and Support

**Course 2420 • 4 Days**

### YOU WILL LEARN HOW TO:

- Install, manage and secure Windows 10 in an enterprise environment
- Configure system settings to balance user and corporate needs
- Manage user accounts and data
- Secure the operating system and user files, and more ...

### HANDS-ON EXPERIENCE:

- Installing Windows 10 and connecting to your organization
- Distributing Windows 10 settings with group policies
- Configuring the centralized storage of user data
- Preventing the execution of unwanted applications, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/2420](http://LearningTree.ca/2420) for more dates.

July 26-29..... Ottawa	Dec. 19-22.....Toronto
Aug. 9-12.....Herndon	Jan. 3-6, 2017 .....Rockville
Oct. 11-14 .....Alexandria	Jan. 17-20, 2017 ..... Ottawa
Nov. 8-11 .....Herndon	Mar. 7-10, 2017 .....New York

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## Windows 8 Introduction

**Course 2404 • 4 Days**

### YOU WILL LEARN HOW TO:

- Install, manage and support the Windows 8/8.1 operating system
- Navigate and perform administrative tasks using the Windows 8/8.1 interface
- Create, manage and secure user accounts, groups and resources
- Customize Windows 8/8.1 settings, network protocols and services, and more ...

### HANDS-ON EXPERIENCE:

- Managing virtual machines with client Hyper-V
- Customizing the Windows 8/8.1 GUI
- Configuring the system with PowerShell
- Securing and auditing resource access, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/2404](http://LearningTree.ca/2404) for more dates.

July 19-22.....New York
Oct. 11-14 .....New York
Nov. 7-10 ..... Ottawa
Mar. 7-10, 2017 .....New York

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## Deploying and Managing Windows

**Course 2401 • 4 Days**

### YOU WILL LEARN HOW TO:

- Implement and manage Windows in an enterprise environment
- Embed tools and scripts into custom Windows PE boot images
- Automate deployments with the Microsoft Deployment Toolkit
- Optimize remote management of Windows tablets/slates, desktops and servers remotely, and more ...

### HANDS-ON EXPERIENCE:

- Capturing and deploying organization-specific images
- Building Lite Touch images with MDT
- Planning and designing a volume activation solution
- Administering workstations and servers remotely, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/2401](http://LearningTree.ca/2401) for more dates.

Aug. 16-19..... Ottawa	Jan. 24-27, 2017 .....Toronto
Sep. 6-9.....Toronto	Feb. 28-Mar. 3, 2017 .. Ottawa
Nov. 29-Dec. 2.....Alexandria	Mar. 14-17, 2017 .....Herndon
Dec. 19-22.....New York	Apr. 18-21, 2017 ....Alexandria

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## Windows Server 2012 Introduction

**Course 2410 • 4 Days**

### YOU WILL LEARN HOW TO:

- Install, configure and troubleshoot Windows Server 2012 R2
- Manage the Active Directory with graphical and PowerShell tools
- Set up folder security, file filtering and disaster recovery backup plans
- Configure servers with Group Policies and delegate tasks, and more ...

### HANDS-ON EXPERIENCE:

- Managing and administering multiple servers with Server Manager
- Building a Domain Controller to host a Windows Server 2012 R2 AD
- Writing AD administration PowerShell scripts
- Imposing quotas and screening files with FSRM, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/2410](http://LearningTree.ca/2410) for more dates.

July 12-15.....Rockville	Nov. 15-18..... Toronto
Aug. 16-19.....Toronto	Dec. 6-9.....Rockville
Sep. 13-16..... Ottawa	Jan. 10-13, 2017 ..... Ottawa
Oct. 11-14 .....Rockville	Mar. 14-17, 2017 ..... Toronto

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## Windows Server 2012 Administration

Course 2411 • 4 Days

### YOU WILL LEARN HOW TO:

- Administer, secure and troubleshoot Windows Server 2012 R2
- Configure a Branch Office Server
- Secure servers using the Windows Firewall, Group Policy and Dynamic Access Control
- Diagnose and repair system failures with recovery environments, and more ...

### HANDS-ON EXPERIENCE:

- Creating performance baselines with Performance Monitor
- Configuring Server Manager groups
- Managing the Windows boot process
- Troubleshooting registry and service issues, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/2411](http://LearningTree.ca/2411) for more dates.

July 5-8.....New York	Nov. 15-18..... Ottawa
Aug. 2-5.....Herndon	Dec. 13-16.....Herndon
Sep. 20-23..... Toronto	Jan. 31-Feb. 3, 2017..New York
Oct. 4-7 .....Herndon	Feb. 28-Mar. 3, 2017 ..Toronto

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## Windows Server 2012 Active Directory Domain Services

Course 2412 • 4 Days

### YOU WILL LEARN HOW TO:

- Install, manage and secure Windows Server 2012 AD
- Restructure existing domains and migrate to AD DS
- Troubleshoot domain creation and manage service failures
- Implement database disaster recovery using cloned virtual domain controllers, and more ...

### HANDS-ON EXPERIENCE:

- Removing domain and DC object metadata
- Correcting Active Directory service failures
- Cloning a virtual domain controller
- Transferring and seizing operation master roles, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/2412](http://LearningTree.ca/2412) for more dates.

July 26-29..... Herndon	Nov. 15-18..... Ottawa
Aug. 30-Sep. 2 .....Rockville	Dec. 19-22.....New York
Sep. 13-16..... Herndon	Jan. 3-6, 2017 ..... Herndon
Oct. 11-14 .....Toronto	Apr. 10-13, 2017..... Toronto

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## Microsoft Azure Infrastructure Services

Course 2413 • 4 Days

### YOU WILL LEARN HOW TO:

- Integrate your existing IT infrastructure with Microsoft Azure
- Create, manage and monitor virtual machines
- Configure virtual networks and prepare redundant data storage
- Protect data and workloads with Azure Backup and Site Recovery, and more ...

### HANDS-ON EXPERIENCE:

- Deploying, configuring and migrating virtual machines
- Connecting to Azure with point-to-site and site-to-site VPNs
- Replicating virtual machines to the cloud for disaster recovery
- Synchronizing your Active Directory with DirSync, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/2413](http://LearningTree.ca/2413) for more dates.

June 28-July 1..... Herndon	Dec. 6-9.....Herndon
July 12-15.....Rockville	Jan. 17-20, 2017 .....Rockville
Aug. 30-Sep. 2 ..... Toronto	Feb. 28-Mar. 3, 2017 ..Toronto
Oct. 11-14 .....Rockville	Apr. 4-7, 2017.....Rockville

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## System Center 2012 Configuration Manager Introduction

Course 2415 • 5 Days

### YOU WILL LEARN HOW TO:

- Install and configure System Center 2012 R2 SP1 ConfigMgr sites
- Deploy and troubleshoot ConfigMgr clients
- Support and administer users and devices
- Collect and report hardware and software inventory data, and more ...

### HANDS-ON EXPERIENCE:

- Building user and device collections
- Deploying client operating systems and security software updates
- Creating and distributing multiple applications
- Configuring and deploying compliance settings, and more ...

### TUITION:

Standard **\$3,710**  
GOV **\$3,260**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/2415](http://LearningTree.ca/2415) for more dates.

July 18-22..... Herndon	Dec. 12-16..... Ottawa
Aug. 8-12.....New York	Jan. 9-13, 2017 .....New York
Sep. 19-23..... Herndon	Jan. 30-Feb. 3, 2017 ..Herndon
Oct. 24-28 .....Toronto	Apr. 24-28, 2017..... Herndon

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## IIS 8.0/8.5 for Windows Server 2012

**Course 2416 • 4 Days**

### YOU WILL LEARN HOW TO:

- Install and configure Internet Information Services (IIS) 8.0/8.5 on Windows Server 2012/R2
- Implement the modular architecture of IIS
- Automate administrative tasks with PowerShell
- Deploy IIS Web applications using ASP.NET and PHP, and more ...

### HANDS-ON EXPERIENCE:

- Managing rogue applications with Rapid Fail Protection
- Backing up and restoring IIS configuration with PowerShell
- Migrating websites with Microsoft Web Deploy
- Hosting multiple domains with DNS, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/2416](http://LearningTree.ca/2416) for more dates.

July 26-29.....Rockville	Dec. 19-22.....New York
Aug. 16-19.....Herndon	Jan. 17-20, 2017 .....Rockville
Sep. 20-23.....New York	Jan. 31-Feb. 3, 2017 ..Toronto
Sep. 27-30.....Toronto	Apr. 18-21, 2017 .....Herndon

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Windows PowerShell: Automating Administrative Tasks

**Course 969 • 4 Days**

### YOU WILL LEARN HOW TO:

- Administer workstations, servers and applications with PowerShell 4.0
- Manage script execution with pipelining and flow control operators
- Leverage WMI for hardware inventories and software configuration
- Create and manage Active Directory objects using native PowerShell commands, and more ...

### HANDS-ON EXPERIENCE:

- Implementing secure PowerShell scripts
- Generating on-demand reports on system status and configuration
- Reading, writing and parsing event logs
- Configuring hardware and software with WMI, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications

**SCHEDULE:** Visit [LearningTree.ca/969](http://LearningTree.ca/969) for more dates.

July 12-15.....Herndon	Nov. 29-Dec. 2.....Herndon
Aug. 23-26.....Ottawa	Dec. 13-16.....New York
Sep. 13-16.....New York	Jan. 3-6, 2017 .....Rockville
Oct. 11-14 .....Toronto	Feb. 28-Mar. 3, 2017 ..Ottawa

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## Windows Server Group Policy Management

**Course 963 • 4 Days**

### YOU WILL LEARN HOW TO:

- Centrally manage workstations and servers with Group Policy Objects (GPOs)
- Lock down user desktops and control computer configurations
- Leverage techniques to target GPOs to specific clients, and more ...

### HANDS-ON EXPERIENCE:

- Establishing a central store and utilizing starter GPOs
- Generating advanced reports to better improve diagnostics
- Writing WQL queries
- Configuring core security settings, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/963](http://LearningTree.ca/963) for more dates.

July 19-22.....New York	Dec. 13-16.....Rockville
Aug. 30-Sep. 2 .....Toronto	Jan. 3-6, 2017 .....New York
Oct. 11-14 .....Ottawa	Jan. 24-27, 2017 .....Toronto
Nov. 1-4.....Alexandria	Apr. 10-13, 2017 .....Ottawa

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Planning, Deploying and Managing Exchange Server 2013

**Course 2502 • 5 Days**

### YOU WILL LEARN HOW TO:

- Install, configure and maintain a robust Exchange Server 2013 system
- Manage mailboxes and leverage mailbox administration techniques
- Transition and coexist with previous versions of Exchange
- Administer server roles and Exchange databases, and more ...

### HANDS-ON EXPERIENCE:

- Installing Exchange Server 2013
- Securing and configuring architecture after setup
- Transitioning from legacy systems
- Managing a Database Availability Group, and more ...

### TUITION:

Standard **\$3,710**  
GOV **\$3,260**

### EARN:

Certifications,  
CompTIA CEUs

**SCHEDULE:** Visit [LearningTree.ca/2502](http://LearningTree.ca/2502) for more dates.

Aug. 8-12.....Rockville	Jan. 9-13, 2017 .....Toronto
Aug. 29-Sep. 2 .....Herndon	Feb. 6-10, 2017 .....Rockville
Sep. 19-23.....Ottawa	Mar. 20-24, 2017 .....Herndon
Nov. 7-11 .....New York	Apr. 3-7, 2017 .....Ottawa

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

# Business Analysis

Visit: [LearningTree.ca/Business](http://LearningTree.ca/Business)

## BCS CERTIFICATIONS

	NUMBER OF DAYS	PAGE
BCS Foundation Certificate in Business Analysis • <i>Course 3507</i> • <b>NEW!</b> .....	3	72
BCS Certificate in Business Analysis Practice • <i>Course 3508</i> • <b>NEW!</b> .....	3	72
BCS Certificate in Modelling Business Processes • <i>Course 3509</i> • <b>NEW!</b> .....	4	72
BCS Certificate in Requirements Engineering • <i>Course 3510</i> • <b>NEW!</b> .....	4	72

## CBAP & CCBA CERTIFICATIONS

Preparing for the IIBA® CBAP®/CCBA® Certification Exam • <i>Course 913</i> .....	4	74
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## BUSINESS ANALYSIS

Business Analysis Introduction: Defining Successful Projects • <i>Course 211</i> .....	3	73
Building an Effective Business Case • <i>Course 212</i> .....	3	73
Introduction to Modeling for Business Analysis • <i>Course 447</i> .....	4	73
Introduction to Business Process Improvement (BPI) • <i>Course 3505</i> .....	3	73
Soft Skills Training for Business Analysis • <i>Course 3504</i> .....	3	74
Developing User Requirements: The Key to Project Success • <i>Course 315</i> .....	4	74
Finance and Accounting for Nonfinancial Managers • <i>Course 281</i> .....	3	74

## 1-DAY BOOT CAMPS — Live, Online via AnyWare™

Documenting Requirements for Successful Projects • <i>Course 4580</i> .....	<a href="http://LearningTree.ca/4580">LearningTree.ca/4580</a>
Key Things to Know About Business Intelligence • <i>Course 4581</i> .....	<a href="http://LearningTree.ca/4581">LearningTree.ca/4581</a>
Enterprise Analysis for Business Analysts • <i>Course 4582</i> .....	<a href="http://LearningTree.ca/4582">LearningTree.ca/4582</a>
Establishing Initiative Feasibility • <i>Course 4583</i> .....	<a href="http://LearningTree.ca/4583">LearningTree.ca/4583</a>
Creating Effective Stakeholder Engagement • <i>Course 4584</i> .....	<a href="http://LearningTree.ca/4584">LearningTree.ca/4584</a>
Estimating Skills for Business Analysts • <i>Course 4585</i> .....	<a href="http://LearningTree.ca/4585">LearningTree.ca/4585</a>
Performing Business Case Analysis • <i>Course 4586</i> .....	<a href="http://LearningTree.ca/4586">LearningTree.ca/4586</a>
Key Financial Metrics for Business Case Analysis • <i>Course 4587</i> .....	<a href="http://LearningTree.ca/4587">LearningTree.ca/4587</a>



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**FREE** AdaptaLearn™  
Hands-On Learning System



**FREE** Computing Sandbox™  
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[LearningTree.ca/Benefits](http://LearningTree.ca/Benefits)



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[LearningTree.ca/Certifications](http://LearningTree.ca/Certifications)

**FREE  
EXAMS!**

## BCS Foundation Certificate in Business Analysis

**Course 3507 • 3 Days**

### YOU WILL LEARN HOW TO:

- Analyze how a business strategy is developed
- Apply strategic analysis techniques
- Investigate an organization's business systems with business analysis techniques, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Analyzing and performing conceptual modeling of business systems using a range of modeling techniques
- Identifying recommendations for business improvements
- Recognizing the components of a rigorous business case for the development and implementation of business change, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

**SCHEDULE:** Visit [LearningTree.ca/3507](http://LearningTree.ca/3507) for more dates.

July 13-15.....Herndon	Nov. 2-4.....New York
Aug. 3-5.....New York	Dec. 14-16.....Alexandria
Sep. 14-16.....Alexandria	Jan. 4-6, 2017.....Herndon
Oct. 12-14.....Herndon	Feb. 1-3, 2017.....New York

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## BCS Certificate in Business Analysis Practice

**Course 3508 • 3 Days**

### YOU WILL LEARN HOW TO:

- Recognize the role and competencies of a business analyst
- Perform strategy analysis
- Identify and analyze stakeholders
- Deploy industry-standard investigation and modeling techniques, and more ...

### HANDS-ON EXPERIENCE:

- Performing strategic analysis using PESTLE and Porter's five forces
- Creating a business process model
- Improving requirements documentation
- Analyzing, prioritizing and organizing elicited requirements, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

**SCHEDULE:** Visit [LearningTree.ca/3508](http://LearningTree.ca/3508) for more dates.

Aug. 17-19.....Herndon	Dec. 14-16.....New York
Sep. 14-16.....New York	Jan. 11-13, 2017.....Rockville
Oct. 19-21.....Rockville	Feb. 15-17, 2017.....Herndon
Nov. 16-18.....Herndon	Mar. 15-17, 2017.....New York

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## BCS Certificate in Modelling Business Processes

**Course 3509 • 4 Days**

### YOU WILL LEARN HOW TO:

- Identify core business processes at an organizational and process level
- Model business processes at the organizational and process level
- Recognize the events that trigger the business processes
- Analyze the tasks within a business process, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Classifying the outcomes from the business processes
- Modeling the actors, tasks and process flows that comprise a business process
- Documenting the business rules applied within tasks
- Investigating the performance issues of individual tasks, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

**SCHEDULE:** Visit [LearningTree.ca/3509](http://LearningTree.ca/3509) for more dates.

Sep. 6-9.....Herndon	Jan. 3-6, 2017.....New York
Oct. 11-14.....New York	Jan. 31-Feb. 3, 2017.....Rockville
Nov. 1-4.....Rockville	Mar. 7-10, 2017.....Herndon
Dec. 6-9.....Herndon	Apr. 4-7, 2017.....New York

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## BCS Certificate in Requirements Engineering

**Course 3510 • 4 Days**

### YOU WILL LEARN HOW TO:

- Link requirements backward to the business case and forward to the delivered product, process or service
- Identify the roles and responsibilities of key stakeholders in the requirements engineering process
- Describe the use of tools to support Requirements Engineering, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Recognizing problems with requirements
- Improving requirements documentation
- Analyzing, prioritizing and organizing elicited requirements
- Documenting requirements, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

**SCHEDULE:** Visit [LearningTree.ca/3510](http://LearningTree.ca/3510) for more dates.

Aug. 30-Sep. 2.....Herndon	Dec. 19-22.....New York
Sep. 27-30.....New York	Jan. 24-27, 2017.....Rockville
Oct. 25-28.....Rockville	Feb. 28-Mar. 3, 2017.....Herndon
Nov. 29-Dec. 2.....Herndon	Mar. 21-24, 2017.....New York

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## Business Analysis Introduction: Defining Successful Projects

**Course 211 • 3 Days**

### YOU WILL LEARN HOW TO:

- Apply best practices of the business analysis discipline
- Conduct a business-needs analysis to elicit stakeholder requirements
- Apply techniques to identify issues and opportunities
- Create effective requirements and communication plans, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Analyzing and prioritizing business needs
- Applying elicitation techniques
- Deploying root cause analysis techniques
- Writing SMART business objectives, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN:

Certifications,  
IIBA CDUs, PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/211](http://LearningTree.ca/211) for more dates.

June 28-30 ..... Toronto	Oct. 12-14 ..... Alexandria
July 20-22 ..... Herndon	Nov. 2-4 ..... New York
Aug. 3-5 ..... Ottawa	Dec. 14-16 ..... Ottawa
Sep. 21-23 ..... Toronto	Feb. 8-10, 2017 ..... Ottawa

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## Building an Effective Business Case

**Course 212 • 3 Days**

### YOU WILL LEARN HOW TO:

- Analyze, create and communicate a business case
- Identify and compare costs and benefits of alternative solutions
- Apply risk assessment techniques to forecast and mitigate issues
- Prioritize alternative solutions according to key decision criteria, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Developing and presenting a real business case
- Determining user scenarios for the proposed process or product
- Identifying and prioritizing alternative solutions
- Performing cost-benefit analysis, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN:

Certifications,  
IIBA CDUs, PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/212](http://LearningTree.ca/212) for more dates.

July 6-8 ..... Ottawa	Oct. 12-14 ..... Toronto
Aug. 3-5 ..... Herndon	Nov. 30-Dec. 2 ..... Herndon
Aug. 10-12 ..... New York	Jan. 18-20, 2017 ..... Ottawa
Sep. 21-23 ..... Herndon	Feb. 8-10, 2017 ..... New York

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## Introduction to Modeling for Business Analysis

**Course 447 • 4 Days**

### YOU WILL LEARN HOW TO:

- Leverage critical modeling techniques
- Define the scope, process, tools and deliverables for modeling
- Model core workflows and crucial processes with Business Process Model and Notation (BPMN)
- Apply UML diagrams to analyze the enterprise structure, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Creating and improving a use case diagram
- Refining business process diagrams using a CASE tool
- Combining activities, gateways and swimlanes
- Completing a business process model, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
IIBA CDUs, PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/447](http://LearningTree.ca/447) for more dates.

Aug. 2-5 ..... Herndon	Dec. 6-9 ..... Toronto
Aug. 30-Sep. 2 ..... Toronto	Jan. 17-20, 2017 ..... Ottawa
Sep. 20-23 ..... Ottawa	Mar. 21-24, 2017 ..... New York
Nov. 8-11 ..... Alexandria	Apr. 18-21, 2017 ..... Toronto

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## Introduction to Business Process Improvement (BPI)

**Course 3505 • 3 Days**

### YOU WILL LEARN HOW TO:

- Leverage core BPI skills to design and execute process change
- Apply a Business Process Improvement Framework (BPIF) to create your BPI approach
- Derive Key Performance Indicators (KPIs) to measure improvement, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Applying the BPI framework to real-world processes
- Building measurements linked to business drivers
- Mapping the current business process
- Recognizing opportunities for process innovation, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN:

Certifications,  
IIBA CDUs, PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/3505](http://LearningTree.ca/3505) for more dates.

July 20-22 ..... Toronto	Jan. 4-6, 2017 ..... New York
Sep. 21-23 ..... Ottawa	Feb. 8-10, 2017 ..... Ottawa
Oct. 12-14 ..... New York	Mar. 1-3, 2017 ..... Toronto
Nov. 30-Dec. 2 ..... Toronto	Apr. 19-21, 2017 ..... Rockville

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## Soft Skills Training for Business Analysis

**Course 3504 • 3 Days**

### YOU WILL LEARN HOW TO:

- Apply soft skills to increase your effectiveness in solution development
- Enhance people skills to become a key influencer in your organization
- Collaborate effectively throughout product and solution development
- Develop dynamic communication strategies to mitigate conflicts and negotiate with stakeholders, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Presenting to high level stakeholders to gain buy-in
- Overcoming challenges in elicitation sessions with stakeholders
- Dealing effectively with difficult people, communicating bad news, and handling sensitive issues, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

**SCHEDULE:** Visit [LearningTree.ca/3504](http://LearningTree.ca/3504) for more dates.

June 29-July 1 .....Rockville	Apr. 12-14, 2017 ..... Herndon
Aug. 24-26 ..... Herndon	
Nov. 9-11 ..... Herndon	
Jan. 11-13, 2017 .....Rockville	

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## Developing User Requirements: The Key to Project Success

**Course 315 • 4 Days**

### YOU WILL LEARN HOW TO:

- Write well-formed, validated requirements and enhance your development processes
- Prepare a plan for developing the requirements
- Conduct efficient requirements elicitation, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Creating requirements documents based on authentic examples
- Preparing for stakeholder interviews with video scenarios
- Analyzing, writing and validating requirements via simulations
- Collaborating with others to foster new ideas and innovations, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
IIBA CDUs, PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/315](http://LearningTree.ca/315) for more dates.

July 5-8 ..... Herndon	Nov. 1-4 ..... New York
Aug. 9-12 ..... Ottawa	Dec. 13-16 ..... Toronto
Sep. 20-23 ..... Toronto	Jan. 3-6, 2017 ..... Ottawa
Oct. 18-21 ..... Ottawa	Mar. 14-17, 2017 ..... Ottawa

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## Preparing for the IIBA® CBAP®/CCBA® Certification Exam

**Course 913 • 4 Days**

### YOU WILL LEARN HOW TO:

- Prepare to pass the business analysis professional certification exams
- Identify and navigate the key concepts of *A Guide to the Business Analysis Body of Knowledge® (BABOK® Guide)*
- Optimize the application processes by aligning your BA experience to the *BABOK® Guide*, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Taking daily practice exams and cross-referencing answers
- Building study references to assist you in learning key concepts
- Completing summaries for major elements of the six *BABOK® Guide* knowledge areas, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

IIBA CDUs, PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/913](http://LearningTree.ca/913) for more dates.

Aug. 9-12 ..... Toronto	Dec. 19-22 ..... Herndon
Sep. 6-9 ..... Herndon	Feb. 7-10, 2017 ..... Toronto
Oct. 4-7 ..... New York	Mar. 21-24, 2017 ..... Toronto
Nov. 8-11 ..... Rockville	

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## Finance and Accounting for Nonfinancial Managers

**Course 281 • 3 Days**

### YOU WILL LEARN HOW TO:

- Integrate financial concepts and policies into the management decision and budgeting process
- Evaluate the financial viability of projects
- Employ cash flow to analyze business status
- Calculate the cost of business activities, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Analyzing and creating income statements, balance sheets and cash flow statements
- Establishing and managing realistic operating budgets
- Selecting the most profitable projects or activities, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN:

PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/281](http://LearningTree.ca/281) for more dates.

July 27-29 ..... New York	Mar. 15-17, 2017 ..... Ottawa
Sep. 21-23 ..... Ottawa	Apr. 11-13, 2017 ..... Toronto
Oct. 19-21 ..... Toronto	
Feb. 15-17, 2017 ..... New York	

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# Leadership & Professional Development

Visit: [LearningTree.ca/Management](http://LearningTree.ca/Management)

## LEADERSHIP & MANAGEMENT

	NUMBER OF DAYS	PAGE
Management Skills • Course 290 .....	4	76
Agile Leadership • Course 3401 .....	3	76
Management Skills for an IT Environment • Course 906 .....	4	76
21st Century Leadership: Inspiring Excellence and Engagement • Course 3311 • <b>NEW!</b> .....	3	76

## PROFESSIONAL SERVICES CERTIFICATIONS

Professional Services Catalyst Certification: Operational Effectiveness • Course 3820 • <b>NEW!</b> .....	3	77
Professional Services Executive Certification: Business Effectiveness • Course 3821 • <b>NEW!</b> .....	3	77
Professional Services Rainmaker Certification: Commercial Effectiveness • Course 3822 • <b>NEW!</b> .....	3	77
Professional Services Athlete Certification: Personal Effectiveness • Course 3823 • <b>NEW!</b> .....	3	77
Professional Services Authority Certification: Technical Expertise • Course 3824 • <b>NEW!</b> .....	3	78

## STRATEGIC THINKING & ORGANIZATIONAL DEVELOPMENT

Strategic Thinking for Operational Management • Course 3310 .....	3	78
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## PERSONAL DEVELOPMENT

Critical Thinking and Creative Problem Solving • Course 284 .....	3	78
Personal Skills for Professional Excellence • Course 297 .....	4	78
Developing Your Leadership Voice for Presence and Impact • Course 3405 .....	3	79
Business and Report Writing Introduction • Course 219 .....	3	79
Technical Writing Introduction • Course 319 .....	4	79
Emotional Intelligence: Achieving Leadership Success • Course 3411 .....	3	79
Time Management • Course 344 .....	2	80
Public Speaking: Compelling Speeches & Presentations • Course 903 .....	3	80

## COMMUNICATION & RELATIONSHIP BUILDING

Assertiveness Skills: Communicating with Authority & Impact • Course 244 .....	3	80
Communication Skills: Results through Collaboration • Course 292 .....	3	80
Influence Skills: Getting Results without Direct Authority • Course 294 .....	4	81
Business Relationship Management: Aligning IT & the Business • Course 902 .....	3	81

## 1-DAY BOOT CAMPS — Live, Online via AnyWare™

Achieving Success as a New Manager • Course 4660 .....	<a href="http://LearningTree.ca/4660">LearningTree.ca/4660</a>
Responding Productively to Stress • Course 4661 .....	<a href="http://LearningTree.ca/4661">LearningTree.ca/4661</a>
Time Management Essentials • Course 4662 .....	<a href="http://LearningTree.ca/4662">LearningTree.ca/4662</a>
Professional Development Essentials • Course 4663 .....	<a href="http://LearningTree.ca/4663">LearningTree.ca/4663</a>
Competency-Based Interviewing Essentials • Course 4664 .....	<a href="http://LearningTree.ca/4664">LearningTree.ca/4664</a>
Performance Management Essentials • Course 4665 .....	<a href="http://LearningTree.ca/4665">LearningTree.ca/4665</a>
Emotional Intelligence Essentials • Course 4666 .....	<a href="http://LearningTree.ca/4666">LearningTree.ca/4666</a>
Coaching Essentials for Managers • Course 4667 .....	<a href="http://LearningTree.ca/4667">LearningTree.ca/4667</a>
Executive Leadership Essentials • Course 4668 .....	<a href="http://LearningTree.ca/4668">LearningTree.ca/4668</a>
Customer Service Essentials • Course 4669 .....	<a href="http://LearningTree.ca/4669">LearningTree.ca/4669</a>
Cultural Intelligence Essentials • Course 4970 .....	<a href="http://LearningTree.ca/4970">LearningTree.ca/4970</a>
Facilitation for Successful Business Meetings • Course 4971 .....	<a href="http://LearningTree.ca/4971">LearningTree.ca/4971</a>
Conflict Management and Resolution Essentials • Course 4972 .....	<a href="http://LearningTree.ca/4972">LearningTree.ca/4972</a>
Developing Successful Business Relationships • Course 4973 .....	<a href="http://LearningTree.ca/4973">LearningTree.ca/4973</a>
Communication and Engaging with Others • Course 4974 .....	<a href="http://LearningTree.ca/4974">LearningTree.ca/4974</a>
Stakeholder Management Essentials • Course 4975 .....	<a href="http://LearningTree.ca/4975">LearningTree.ca/4975</a>
Creative Thinking for Results • Course 4976 .....	<a href="http://LearningTree.ca/4976">LearningTree.ca/4976</a>
Leading Innovation Essentials • Course 4982 .....	<a href="http://LearningTree.ca/4982">LearningTree.ca/4982</a>

## Management Skills

**Course 290 • 4 Days**

### YOU WILL LEARN HOW TO:

- Apply core management skills and techniques to deliver results
- Enhance leadership ability by developing emotional intelligence
- Communicate with, motivate and empower your team
- Delegate work to individuals and teams, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Developing a strategy to motivate your team
- Scripting and applying your delegation approach
- Mapping stakeholder environment to analyze interdependencies
- Enhancing your management style with EI, and more ...

#### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

#### EARN:

Certifications,  
PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/290](http://LearningTree.ca/290) for more dates.

July 5-8..... Herndon	Nov. 15-18..... Herndon
Aug. 9-12..... Toronto	Jan. 17-20, 2017 ..... Toronto
Sep. 20-23..... Ottawa	Feb. 28-Mar. 3, 2017 .. Ottawa
Oct. 25-28 ..... New York	Apr. 11-14, 2017 ..... Herndon

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## Agile Leadership

**Course 3401 • 3 Days**

### YOU WILL LEARN HOW TO:

- Lead your organization into the future by identifying and enhancing business value
- Increase the effectiveness of your organization's Lean and Agile initiatives
- Develop your emotional intelligence to overcome resistance to change
- Align and amplify contemporary leadership principles under the umbrella of an Agile Leadership Model, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Defining the specific business value your organization seeks and rewards
- Identifying business opportunities that will benefit from an Agile approach
- Role-playing leadership responses to realistic case study scenarios
- Applying emotional intelligence principles to enhance your reputation as an Agile leader, and more ...

#### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

#### EARN:

PMI PDUs,  
Scrum Alliance SEUs

**SCHEDULE:** Visit [LearningTree.ca/3401](http://LearningTree.ca/3401) for more dates.

July 13-15..... New York	Feb. 22-24, 2017 ..... Herndon
Sep. 14-16..... Herndon	Apr. 19-21, 2017 ..... Rockville
Oct. 5-7 ..... Rockville	
Dec. 7-9..... New York	

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Management Skills for an IT Environment

**Course 906 • 4 Days**

### YOU WILL LEARN HOW TO:

- Lead technical staff to excellence with vision, effective communication and clear delegation
- Leverage emotion to optimize communication and performance
- Motivate and empower technical professionals, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Identifying and personalizing your management approach
- Developing motivational strategies for technical and nontechnical individuals
- Role-playing delegation within a simulated IT case-study application, and more ...

#### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

#### EARN:

Certifications,  
PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/906](http://LearningTree.ca/906) for more dates.

July 19-22..... Ottawa	Nov. 15-18..... Toronto
Aug. 2-5..... Toronto	Dec. 6-9..... Ottawa
Sep. 6-9..... Toronto	Jan. 31-Feb. 3, 2017 .. Toronto
Oct. 4-7 ..... Ottawa	Mar. 7-10, 2017 ..... Ottawa

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## 21st Century Leadership: Inspiring Excellence and Engagement

**Course 3311 • 3 Days**

### YOU WILL LEARN HOW TO:

- Develop 21st Century Leadership to achieve outstanding results
- Champion change in the contemporary workplace
- Foster successful diverse relationships
- Build bridges of understanding in chaotic environments, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Baseline readiness for 21st Century leadership
- Debating the impact of emerging technologies on trust and engagement
- Motivating diverse teams
- Creating my leadership blueprint and development plan, and more ...

#### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

**SCHEDULE:** Visit [LearningTree.ca/3311](http://LearningTree.ca/3311) for more dates.

July 20-22..... Herndon	Nov. 9-11 ..... New York
Aug. 10-12..... New York	Dec. 20-22..... Alexandria
Sep. 28-30..... Alexandria	Jan. 18-20, 2017 ..... Herndon
Oct. 19-21 ..... Herndon	Feb. 8-10, 2017 ..... New York

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Professional Services Catalyst Certification: Operational Effectiveness

**Course 3820 • 3 Days**

### YOU WILL LEARN HOW TO:

- Prepare for and pass the PS Professional Catalyst certification
- Determine the five elements of collaboration to help customers describe their needs
- Assess the importance of stakeholder engagement, the definition of outcomes and the concept of the value ladder, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Determining project areas for individuals to lead
- Applying the 5 whys technique to meaningful marketing
- Creating a stakeholder power and empathy map
- Developing an engagement pitch, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

**SCHEDULE:** Visit [LearningTree.ca/3820](http://LearningTree.ca/3820) for more dates.

Aug. 17-19.....Herndon	Dec. 7-9.....New York
Sep. 7-9.....New York	Jan. 25-27, 2017 ...Alexandria
Oct. 5-7.....Rockville	Feb. 15-17, 2017 .....Herndon
Nov. 16-18.....Herndon	Mar. 8-10, 2017 .....New York

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Professional Services Executive Certification: Business Effectiveness

**Course 3821 • 3 Days**

### YOU WILL LEARN HOW TO:

- Prepare for and pass the PS Professional Executive certification
- Enhance your knowledge of what is going on in the economy and the implications on your industry
- Recognize the basics of financial management, and determine the general health of a business, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Analyzing company accounting information, including balance sheet, profit and loss statement and cash flow statement
- Conducting assessment of product/service pricing, including: break-even analysis, the margin of safety, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

**SCHEDULE:** Visit [LearningTree.ca/3821](http://LearningTree.ca/3821) for more dates.

Aug. 3-5.....Herndon	Dec. 14-16.....Rockville
Sep. 14-16.....Rockville	Jan. 4-6, 2017 .....Alexandria
Oct. 12-14 .....Alexandria	Feb. 1-3, 2017 .....Herndon
Nov. 30-Dec. 2.....New York	Mar. 22-24, 2017 .....Rockville

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Professional Services Rainmaker Certification: Commercial Effectiveness

**Course 3822 • 3 Days**

### YOU WILL LEARN HOW TO:

- Prepare for and pass the PS Professional Rainmaker certification
- Accurately assess the customer needs and align them with current and future business offerings
- Document a very high quality and concise scope of work, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Applying the Seven Business Development Phases
- Understanding buyer personas and their implications for Insight Selling
- Active Listening and impact on building trust
- Creating the value proposition, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

**SCHEDULE:** Visit [LearningTree.ca/3822](http://LearningTree.ca/3822) for more dates.

July 20-22.....Herndon	Nov. 9-11 .....New York
Aug. 10-12.....New York	Dec. 7-9.....Rockville
Sep. 28-30.....Alexandria	Jan. 18-20, 2017 .....Herndon
Oct. 19-21 .....Herndon	Feb. 8-10, 2017 .....New York

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Professional Services Athlete Certification: Personal Effectiveness

**Course 3823 • 3 Days**

### YOU WILL LEARN HOW TO:

- Prepare for and pass the PS Professional Athlete Certification
- Recognize the essentials of engagement and how to make a lasting impression
- Merit and maintain trust, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Creating lasting impressions
- Engaging with empathy and the power of perception
- Constructing a personal mission statement using mental creation and reverse engineering
- Developing a time management matrix, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

**SCHEDULE:** Visit [LearningTree.ca/3823](http://LearningTree.ca/3823) for more dates.

July 20-22.....Herndon	Nov. 16-18.....New York
Aug. 17-19.....New York	Dec. 20-22.....Alexandria
Sep. 7-9.....Rockville	Jan. 18-20, 2017 .....Herndon
Oct. 19-21 .....Herndon	Feb. 8-10, 2017 .....New York

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*



## Professional Services Authority Certification: Technical Expertise

**Course 3824 • 3 Days**

### YOU WILL LEARN HOW TO:

- Prepare for and pass the PS Professional Authority certification
- Question to stimulate the development of business strategy
- Understand the Six distinct categories of disruptive technology and their impact on adoption, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Creating technology road maps in alignment with business drivers
- Developing business strategy with appropriate technology components
- Identifying and leveraging disruptive technology
- Practice the preparation steps to producing successful technically relevant documents, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

**SCHEDULE:** Visit [LearningTree.ca/3824](http://LearningTree.ca/3824) for more dates.

Aug. 17-19..... Herndon	Dec. 7-9.....New York
Sep. 7-9.....New York	Jan. 25-27, 2017 ... Alexandria
Oct. 19-21 ..... Alexandria	Feb. 22-24, 2017 ..... Herndon
Nov. 16-18..... Herndon	Mar. 15-17, 2017 .....New York

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## Strategic Thinking for Operational Management

**Course 3310 • 3 Days**

### YOU WILL LEARN HOW TO:

- Leverage strategic thinking at the operational level to add value
- Maximize operational core competencies to implement organizational strategy
- Bridge the gap between organizational and operational goals
- Foster an innovative culture to overcome strategic challenges, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Prioritizing and managing stakeholder relationships
- Building a core-competencies matrix at the operational level
- Activating strategic processes to realize strategic intent
- Assessing the impact of change, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN:

Certifications,  
PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/3310](http://LearningTree.ca/3310) for more dates.

June 29-July 1 ..... Alexandria	Dec. 14-16..... Toronto
Aug. 24-26..... Ottawa	Jan. 25-27, 2017 ..... Herndon
Oct. 19-21 .....New York	Mar. 15-17, 2017 .....Rockville
Nov. 16-18..... Ottawa	Apr. 19-21, 2017 .....New York

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## Critical Thinking and Creative Problem Solving

**Course 284 • 3 Days**

### YOU WILL LEARN HOW TO:

- Make better decisions through critical thinking and creative problem solving
- Develop your personal creativity
- Select the best decision given the specific situation
- Apply processes to assess work issues and problems, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Profiling your personal thinking style and the styles of others
- Stimulating creativity through reflection exercises
- Analyzing left- and right-brain characteristics
- Assessing a situation to determine if it is a problem or a decision, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN:

Certifications,  
PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/284](http://LearningTree.ca/284) for more dates.

Aug. 3-5..... Toronto	Dec. 7-9..... Ottawa
Aug. 31-Sep. 2 ..... Ottawa	Jan. 4-6, 2017 ..... Toronto
Sep. 28-30..... Herndon	Mar. 1-3, 2017 ..... Ottawa
Oct. 26-28 ..... Alexandria	Apr. 26-28, 2017 ..... Toronto

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Personal Skills for Professional Excellence

**Course 297 • 4 Days**

### YOU WILL LEARN HOW TO:

- Apply proven skills to stay focused, work effectively and develop your networks and expertise
- Get results working with different and difficult personality types
- Maintain focus in pressure situations
- Build and leverage your professional reputation, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Evaluating your strengths and style
- Linking ethics, integrity and reputation
- Developing teamwork skills in a simulated situation
- Profiling your levels of political intelligence, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/297](http://LearningTree.ca/297) for more dates.

July 5-8..... Herndon	Dec. 19-22..... Toronto
Aug. 2-5..... Alexandria	Jan. 3-6, 2017 ..... Herndon
Oct. 11-14 ..... Herndon	Jan. 31-Feb. 3, 2017... Alexandria
Nov. 29-Dec. 2..... New York	

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Developing Your Leadership Voice for Presence and Impact

Course 3405 • 3 Days

### YOU WILL LEARN HOW TO:

- Adopt a strategic process and a framework for leading change
- Communicate effectively to successfully implement change
- Apply a strategic approach to communication and planning
- Inspire and motivate others to support change, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Evaluating your current personal communication areas for growth
- Discovering personal factors that affect communications outcomes
- Practicing organizational change stories to connect with stakeholders
- Crafting effective messages, and more ...

#### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

#### EARN:

Certifications,  
PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/3405](http://LearningTree.ca/3405) for more dates.

Aug. 24-26..... Ottawa	Dec. 20-22.....Toronto
Sep. 7-9.....New York	Jan. 25-27, 2017 ..... Ottawa
Sep. 21-23..... Toronto	Feb. 22-24, 2017 .....New York
Oct. 26-28 .....Herndon	Mar. 15-17, 2017 ..... Toronto

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Business and Report Writing Introduction

Course 219 • 3 Days

### YOU WILL LEARN HOW TO:

- Develop writing skills to convey a credible message
- Compose concise messages using a structured writing process
- Adapt your writing to your audience's needs
- Fine-tune language to improve persuasiveness and impact, and more ...

### HANDS-ON EXPERIENCE:

- Identifying your audience
- Drafting for clarity and revising for conciseness
- Constructing successful email communication
- Creating a Prioritization Matrix, and more ...

#### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

#### EARN:

PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/219](http://LearningTree.ca/219) for more dates.

June 29-July 1 .....New York	Nov. 9-11 ..... Herndon
July 27-29 ..... Ottawa	Jan. 4-6, 2017 .....New York
Aug. 24-26 ..... Herndon	Feb. 1-3, 2017 ..... Ottawa
Oct. 26-28 ..... Toronto	Mar. 8-10, 2017 ..... Toronto

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Technical Writing Introduction

Course 319 • 4 Days

### YOU WILL LEARN HOW TO:

- Write effective technical documents, manuals and white papers
- Assess your audience and develop documents to meet their needs
- Build effective sentences and sections that explain information clearly
- Employ diagrams, tables, charts and other graphical tools effectively, and more ...

### HANDS-ON EXPERIENCE:

- Analyzing your audience to meet their needs
- Applying a style guide to achieve consistency
- Editing to remove unnecessary verbiage
- Choosing the right words building strong sentences, and more ...

#### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

#### EARN:

PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/319](http://LearningTree.ca/319) for more dates.

Aug. 9-12..... Ottawa	Dec. 19-22..... Ottawa
Sep. 6-9..... Herndon	Feb. 21-24, 2017 ..... Herndon
Oct. 25-28 .....New York	Mar. 14-17, 2017 ..... Ottawa
Nov. 15-18..... Toronto	Apr. 25-28, 2017 .....New York

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## Emotional Intelligence: Achieving Leadership Success

Course 3411 • 3 Days

### YOU WILL LEARN HOW TO:

- Develop greater self-awareness and strengthen your leadership
- Apply four core emotional intelligence skills for achieving results
- Identify your emotional strengths and areas for development
- Demonstrate the attributes of an emotionally intelligent leader, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Appraising your Emotional Intelligence (EQ)
- Challenging self-limiting beliefs
- Developing self-management strategies
- Managing anger in the workplace, and more ...

#### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

#### EARN:

Certifications,  
PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/3411](http://LearningTree.ca/3411) for more dates.

Aug. 17-19.....Toronto	Dec. 14-16..... Toronto
Aug. 31-Sep. 2 ..... Ottawa	Jan. 4-6, 2017 ..... Herndon
Sep. 28-30 ..... Herndon	Feb. 8-10, 2017 ..... Toronto
Nov. 23-25 ..... Ottawa	Feb. 22-24, 2017 ..... Ottawa

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Time Management

**Course 344 • 2 Days**

### YOU WILL LEARN HOW TO:

- Manage your time by implementing a framework to achieve goals
- Make decisions about what you do and when
- Apply a structured whole-brain process to shape your current and future commitments
- Proactively schedule tasks, construct weekly plans and to-do lists, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Identifying your personal time style
- Constructing and applying an Issues/Impact matrix
- Mapping and analyzing commitments and future situations
- Formulating WISE goals, and more ...

### TUITION:

Standard **\$2,225**  
GOV **\$1,950**

### EARN:

PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/344](http://LearningTree.ca/344) for more dates.

July 18-19.....New York	Dec. 19-20.....Alexandria
Sep. 12-13.....Ottawa	Jan. 9-10, 2017 .....Herndon
Oct. 24-25.....Herndon	Feb. 27-28, 2017 .....Ottawa
Nov. 14-15.....Toronto	Apr. 24-25, 2017 .....Toronto

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Public Speaking: Compelling Speeches & Presentations

**Course 903 • 3 Days**

### YOU WILL LEARN HOW TO:

- Speak publicly in a convincing, confident and concise style
- Deliver dynamic and effective presentations
- Employ a method to create materials that support a compelling speech
- Build audience rapport through eye contact, vocal delivery and body language, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Constructing an informative and persuasive presentation
- Emphasizing points with body language, gestures and use of space
- Improving vocal emphasis, modulation and pacing
- Building audience involvement using interactive techniques, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN:

Certifications,  
PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/903](http://LearningTree.ca/903) for more dates.

June 28-30 .....Ottawa	Nov. 30-Dec. 2.....Herndon
Aug. 24-26.....Toronto	Dec. 7-9.....Ottawa
Aug. 31-Sep. 2 .....Herndon	Feb. 8-10, 2017 .....Toronto
Nov. 2-4.....New York	Mar. 15-17, 2017 .....Herndon

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## Assertiveness Skills: Communicating with Authority & Impact

**Course 244 • 3 Days**

### YOU WILL LEARN HOW TO:

- Demonstrate and model assertive behavior for win-win outcomes
- Gain self-awareness of your attitudes, behavior patterns and habits
- Develop a positive, proactive response to difficult behaviors
- Exhibit confidence in your ability to address challenging situations, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Practicing assertive communication with DESC scripts
- Exhibiting confident body language that conveys your message
- Modeling assertive behavior options
- Profiling your conflict handling style, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN:

PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/244](http://LearningTree.ca/244) for more dates.

June 28-30 .....Toronto	Jan. 18-20, 2017 .....Ottawa
Aug. 24-26.....Herndon	Jan. 25-27, 2017 .....Herndon
Sep. 14-16.....Ottawa	Feb. 8-10, 2017 .....Rockville
Nov. 16-18.....Toronto	Apr. 12-14, 2017 .....New York

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Communication Skills: Results through Collaboration

**Course 292 • 3 Days**

### YOU WILL LEARN HOW TO:

- Build collaborative relationships that emphasize trust and respect
- Communicate effectively using simple and concise language
- Enhance listening skills to anticipate and avoid misunderstandings
- Foster cross-cultural understanding in your workplace, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Experiencing one-way and two-way communication
- Defining your communication style
- Demonstrating active-listening skills
- Dealing with challenging emotions, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN:

Certifications,  
PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/292](http://LearningTree.ca/292) for more dates.

Aug. 10-12.....Toronto	Jan. 11-13, 2017 .....Toronto
Sep. 7-9.....Ottawa	Mar. 22-24, 2017 .....Toronto
Oct. 5-7 .....Rockville	Mar. 29-31, 2017 .....Ottawa
Nov. 2-4.....Toronto	Apr. 5-7, 2017 .....Rockville

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## Influence Skills: Getting Results without Direct Authority

**Course 294 • 4 Days**

### YOU WILL LEARN HOW TO:

- Apply influence strategies to gain commitment and foster collaboration
- Dynamically adjust your approach to others to gain buy-in
- Achieve goals by enhancing trust and cooperation
- Deal effectively with challenging behaviors to overcome resistance and inertia in others, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Applying the Basic Influence Formula
- Dealing effectively with resistance
- Assessing your political know-how
- Using win-win approaches to persuade others, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/294](http://LearningTree.ca/294) for more dates.

June 27-30 ..... Ottawa	Oct. 25-28 .....New York
July 26-29.....New York	Nov. 15-18 .....Toronto
Aug. 23-26..... Ottawa	Dec. 19-22 ..... Ottawa
Sep. 20-23.....Toronto	Jan. 3-6, 2017 .....Toronto

*Attend In-CLASS or LIVE, ONLINE via AnyWare™*

## Business Relationship Management: Aligning IT & the Business

**Course 902 • 3 Days**

### YOU WILL LEARN HOW TO:

- Build a strong alignment between IT and the business
- Plan a strategy that positions you as a trusted IT advisor to key stakeholders
- Choose IT projects that build trust and alignment
- Articulate IT solutions that meet business needs, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Experiencing trust firsthand through a dynamic simulation
- Evaluating stakeholders to assess their level of influence and power
- Documenting an IT organization's catalog of services
- Negotiating business agreements, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN:

Certifications,  
IIBA CDUs, PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/902](http://LearningTree.ca/902) for more dates.

July 27-29.....Toronto	Dec. 7-9.....Toronto
Aug. 17-19..... Ottawa	Jan. 4-6, 2017 .....New York
Sep. 21-23.....Toronto	Feb. 1-3, 2017 .....Toronto
Oct. 5-7 .....New York	Mar. 8-10, 2017 .....Ottawa

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## PS PROFESSIONAL CERTIFICATION TRAINING Leverage Technical Skills to Enable Organizational Change

### ATHLETE

Personal Effectiveness



### EXECUTIVE

Business



### RAINMAKER

Commercial



### AUTHORITY

Technical



### CATALYST

Operational



**IT Certifications that Validate Your Technical, Commercial and Personal Strengths**

*Learn more about PS Professional Certification courses at:*

**[LearningTree.ca/Management](http://LearningTree.ca/Management)**



# Project Management

Visit: [LearningTree.ca/PM](http://LearningTree.ca/PM)

PROJECT MANAGEMENT	NUMBER OF DAYS	PAGE
Project Management: Skills for Success • <i>Course 296</i>	4	83
Risk Management for Projects, Programs and Operations • <i>Course 286</i>	4	83
Complex Project Management • <i>Course 287</i>	4	83
Project Leadership: Building High-Performance Teams • <i>Course 346</i>	4	83
Building and Evolving a Project Management Office • <i>Course 3610</i>	3	85
Project Time and Cost Management • <i>Course 923</i>	4	86

## PROFESSIONAL CERTIFICATIONS

Project Management Professional (PMP)® Exam Prep • <i>Course 276</i>	5	84
PMI-Agile Certified Practitioner (PMI-ACP)® Exam Prep • <i>Course 3605</i>	3	84
Certified Associate in Project Management (CAPM)® Exam Prep • <i>Course 3601</i>	3	84
PRINCE2® Achieving Foundation & Practitioner Certification • <i>Course 177</i>	5	84
PRINCE2 Agile™ Achieving Practitioner Certification • <i>Course 3634</i>	3	85
APMG AgilePM® Achieving Practitioner Certification • <i>Course 3633</i>	5	85

## SHAREPOINT & MICROSOFT PROJECT

SharePoint 2013 for Project Management • <i>Course 919</i>	3	85
Microsoft Project Introduction • <i>Course 3702</i>	3	86

## 1-DAY BOOT CAMPS — Live, Online via AnyWare™

PRINCE2 A Project Management Methodology • <i>Course 4620</i>	<a href="http://LearningTree.ca/4620">LearningTree.ca/4620</a>
Project Management Fundamentals • <i>Course 4621</i>	<a href="http://LearningTree.ca/4621">LearningTree.ca/4621</a>
Project Initiation • <i>Course 4622</i>	<a href="http://LearningTree.ca/4622">LearningTree.ca/4622</a>
Earned Value Management • <i>Course 4623</i>	<a href="http://LearningTree.ca/4623">LearningTree.ca/4623</a>
Project Rescue • <i>Course 4624</i>	<a href="http://LearningTree.ca/4624">LearningTree.ca/4624</a>
Project Scope Management • <i>Course 4626</i>	<a href="http://LearningTree.ca/4626">LearningTree.ca/4626</a>
Project Time Management • <i>Course 4627</i>	<a href="http://LearningTree.ca/4627">LearningTree.ca/4627</a>
Project Communications and Stakeholder Management • <i>Course 4628</i>	<a href="http://LearningTree.ca/4628">LearningTree.ca/4628</a>
Project Risk Management • <i>Course 4629</i>	<a href="http://LearningTree.ca/4629">LearningTree.ca/4629</a>
Project Leadership • <i>Course 4630</i>	<a href="http://LearningTree.ca/4630">LearningTree.ca/4630</a>
PMP®: A Project Management Certification • <i>Course 4631</i>	<a href="http://LearningTree.ca/4631">LearningTree.ca/4631</a>
Negotiation Skills for Project Managers • <i>Course 4633</i>	<a href="http://LearningTree.ca/4633">LearningTree.ca/4633</a>
Project Cost Management • <i>Course 4916</i>	<a href="http://LearningTree.ca/4916">LearningTree.ca/4916</a>
Project Procurement Management • <i>Course 4917</i>	<a href="http://LearningTree.ca/4917">LearningTree.ca/4917</a>



## Project Management: Skills for Success

Course 296 • 4 Days

### YOU WILL LEARN HOW TO:

- Manage and deliver successful projects for stakeholder satisfaction
- Apply best practices to plan a project using a proven five-step process
- Estimate and schedule task work, duration and costs with confidence
- Implement risk management techniques and mitigation strategies, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Agreeing on clear project goals and measurable deliverables
- Scoping a project and estimating task duration and work
- Determining task dependencies and calculating the schedule
- Developing risk management strategies and contingency plans, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/296](http://LearningTree.ca/296) for more dates.

June 28-July 1..... Alexandria	Aug. 16-19..... Ottawa
July 12-15..... Ottawa	Sep. 13-16..... Rockville
July 26-29..... Herndon	Sep. 27-30..... New York
Aug. 9-12..... Toronto	Oct. 18-21 ..... Toronto

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## Risk Management for Projects, Programs and Operations

Course 286 • 4 Days

### YOU WILL LEARN HOW TO:

- Manage risk to deliver initiatives that meet stakeholder needs
- Apply scalable templates for Risk Management Plans, Risk Registers and Risk Assessment Matrixes for your initiative
- Leverage a proven qualitative risk-analysis process to guide your risk management decisions, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Creating your RMP from a proven model
- Developing a Risk Register through an incremental process
- Applying a seven-step qualitative risk analysis process to guide your key management decisions, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/286](http://LearningTree.ca/286) for more dates.

July 5-8..... Toronto	Jan. 10-13, 2017 ..... Toronto
Aug. 2-5..... New York	Jan. 31-Feb. 3, 2017.. New York
Sep. 20-23..... Rockville	Mar. 7-10, 2017 ..... Rockville
Nov. 1-4..... Ottawa	Apr. 10-13, 2017 ..... Ottawa

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## Complex Project Management

Course 287 • 4 Days

### YOU WILL LEARN HOW TO:

- Manage complex projects involving strategic risks
- Incorporate the science of complexity into project management strategies
- Apply a complexity assessment model and adaptive process
- Minimize uncertainty by leveraging best practices from Critical Chain, Agile and Lean approaches, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Analyzing the components of a complex project
- Applying a complexity assessment model to a case study
- Building an adaptive project management plan
- Decomposing a complex program into manageable components, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/287](http://LearningTree.ca/287) for more dates.

June 28-July 1..... Rockville	Oct. 18-21 ..... Toronto
July 12-15..... New York	Nov. 15-18 ..... Ottawa
Aug. 16-19..... Ottawa	Jan. 3-6, 2017 ..... Herndon
Sep. 20-23..... New York	Feb. 14-17, 2017 ..... Toronto

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## Project Leadership: Building High-Performance Teams

Course 346 • 4 Days

### YOU WILL LEARN HOW TO:

- Build and sustain high-performing project teams
- Develop team identity and empower others
- Foster productive team communication and effectively manage conflict
- Increase productivity by challenging your processes and motivating your people, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Applying the LSM model and leadership best practices
- Distinguishing the stages of team development
- Maximizing team participation in delivering project outcomes
- Creating team direction and purpose, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/346](http://LearningTree.ca/346) for more dates.

June 28-July 1..... Rockville	Oct. 18-21 ..... Herndon
July 12-15..... Toronto	Nov. 22-25 ..... Toronto
Aug. 16-19..... Ottawa	Dec. 13-16 ..... Herndon
Sep. 6-9..... Herndon	Feb. 7-10, 2017 ..... Ottawa

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## Project Management Professional (PMP)<sup>®</sup> Exam Prep

Course 276 • 5 Days

### YOU WILL LEARN HOW TO:

- Prepare to pass the PMI PMP exam while completing the required 35 contact hours/PDUs
- Navigate *PMBOK<sup>®</sup> Guide* process groups and knowledge areas
- Analyze the tools and techniques of the *PMBOK<sup>®</sup> Guide* processes
- Align your knowledge with *PMBOK<sup>®</sup> Guide*, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Taking daily PMP-style practice exams and cross-referencing answers to *PMBOK<sup>®</sup> Guide*
- Charting Input-Process-Output (IPO) diagrams
- Mapping *PMBOK<sup>®</sup> Guide* knowledge areas and process groups, and more ...

### TUITION:

Standard **\$3,710**  
GOV **\$3,260**

### EARN:

PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/276](http://LearningTree.ca/276) for more dates.

July 4-8.....Toronto	Sep. 12-16.....New York
July 25-29.....Rockville	Sep. 26-30.....Herndon
Aug. 8-12.....Toronto	Oct. 17-21.....New York
Aug. 22-26.....Ottawa	Oct. 24-28.....Alexandria

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## PMI-Agile Certified Practitioner (PMI-ACP)<sup>®</sup> Exam Prep

Course 3605 • 3 Days

### YOU WILL LEARN HOW TO:

- Prepare to pass the PMI-ACP exam while completing the required 21 contact hours/PDUs
- Navigate the tools, techniques, knowledge and skills exam areas
- Align your Agile experience with PMI's seven domains of practice, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Taking daily PMI-ACP-style practice exams
- Comparing Agile principles to the principles of Lean Development
- Mapping techniques to Agile methods
- Exploring the concept of cycle time, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN:

PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/3605](http://LearningTree.ca/3605) for more dates.

July 20-22.....Herndon	Nov. 16-18.....Rockville
Aug. 3-5.....New York	Jan. 18-20, 2017.....New York
Sep. 21-23.....Toronto	Mar. 8-10, 2017.....Toronto
Oct. 12-14.....Herndon	Apr. 19-21, 2017.....Herndon

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## Certified Associate in Project Management (CAPM)<sup>®</sup> Exam Prep

Course 3601 • 3 Days

### YOU WILL LEARN HOW TO:

- Prepare to pass the PMI CAPM exam while completing the required 23 contact hours/PDUs
- Decipher *PMBOK<sup>®</sup> Guide* processes and knowledge areas
- Identify significant steps of the project life cycle, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Taking CAPM-style practice exams and cross-referencing answers to the *PMBOK<sup>®</sup> Guide*
- Speaking the *PMBOK<sup>®</sup> Guide* language
- Mapping *PMBOK<sup>®</sup> Guide* knowledge areas and process groups
- Customizing process summaries for future study, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN:

PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/3601](http://LearningTree.ca/3601) for more dates.

June 29-July 1.....Herndon	Dec. 14-16.....Ottawa
Aug. 31-Sep. 2.....New York	Jan. 4-6, 2017.....Herndon
Sep. 14-16.....Herndon	Feb. 22-24, 2017.....Herndon
Nov. 8-10.....Toronto	Apr. 19-21, 2017.....Toronto

*Attend In-CLASS or LIVE, ONLINE via AnyWare<sup>™</sup>*

## PRINCE2<sup>®</sup> Achieving Foundation & Practitioner Certification

Course 177 • 5 Days

### YOU WILL LEARN HOW TO:

- Prepare for the PRINCE2 Foundation certificate in project management and Practitioner Exams
- Work with the seven principles of PRINCE2
- Map out the processes that form the core of PRINCE2
- Apply the key themes that establish governance in the model, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Evaluating and critiquing a business case
- Delegating authority
- Designing a project management team
- Establishing controls and strategies, and more ...

### TUITION:

Standard **\$3,710**  
GOV **\$3,260**

### EARN:

PMI PDUs



**SCHEDULE:** Visit [LearningTree.ca/177](http://LearningTree.ca/177) for more dates.

July 18-22.....New York	Dec. 5-9.....Toronto
Aug. 29-Sep. 2.....New York	Jan. 9-13, 2017.....New York
Oct. 31-Nov. 4.....New York	Mar. 13-17, 2017.....New York
Nov. 14-18.....Ottawa	

*Attend In-CLASS or LIVE, ONLINE via AnyWare<sup>™</sup>*

## APMG AgilePM® Achieving Practitioner Certification

**Course 3633 • 5 Days**

### YOU WILL LEARN HOW TO:

- Prepare for and take the APMG-International Agile Project Management Foundation and Practitioner Exams
- Establish and lead a successful Agile project with DSDM
- Apply Agile techniques such as facilitated workshops, modeling, prioritizing, timeboxing, user stories and estimating, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Taking practice exam questions to confirm an understanding of the exam material
- Assessing the Project Approach Questionnaire (PAQ) content
- Analyzing a Prioritized Requirements List (PRL), and more ...

### TUITION:

Standard **\$3,710**  
GOV **\$3,260**

### EARN: PMI PDUs



**SCHEDULE:** Visit [LearningTree.ca/3633](http://LearningTree.ca/3633) for more dates.

Aug. 29-Sep. 2 .....New York	Apr. 3-7, 2017 .....Rockville
Oct. 17-21 .....Rockville	
Nov. 14-18 .....Ottawa	
Feb. 27-Mar. 3, 2017.. New York	

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## PRINCE2 Agile™ Achieving Practitioner Certification

**Course 3634 • 3 Days**

### YOU WILL LEARN HOW TO:

- Integrate PRINCE2 with Agile methodologies
- Configure and tune PRINCE2 to utilize agile frameworks
- Implement PRINCE2 for its project direction and management
- Apply an agile framework for product delivery, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Applying PRINCE2 Agile principles to a project case study
- Completing official AXELOS sample exam questions
- Designing project roles based upon PRINCE2 Agile guidelines
- Delivering in Sprints with Scrum, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN: PMI PDUs



**SCHEDULE:** Visit [LearningTree.ca/3634](http://LearningTree.ca/3634) for more dates.

July 27-29 ..... Herndon	Nov. 9-11 .....New York
Aug. 17-19 .....New York	Jan. 18-20, 2017 ..... Herndon
Sep. 28-30 .....Alexandria	Feb. 8-10, 2017 .....New York
Oct. 12-14 ..... Herndon	Mar. 1-3, 2017 .....Rockville

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## Building and Evolving a Project Management Office

**Course 3610 • 3 Days**

### YOU WILL LEARN HOW TO:

- Develop a vision and charter of a Project Management Office (PMO)
- Evolve a PMO to improve project success
- Standardize project management processes and templates
- Automate processes in Project Portfolio Management tools, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Making a case for your PMO
- Conducting a PMO maturity assessment
- Creating a roadmap to evolve your PMO
- Customizing management processes, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN:

Certifications,  
PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/3610](http://LearningTree.ca/3610) for more dates.

June 29-July 1 ..... Herndon	Nov. 23-25 ..... Toronto
July 27-29 .....New York	Dec. 14-16 .....Alexandria
Sep. 28-30 .....Rockville	Dec. 20-22 .....New York
Oct. 12-14 ..... Herndon	Feb. 15-17, 2017 ..... Herndon

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## SharePoint 2013 for Project Management

**Course 919 • 3 Days**

### YOU WILL LEARN HOW TO:

- Exploit SharePoint Technologies to manage successful projects
- Build a SharePoint Project Management Information System (PMIS)
- Create and customize a SharePoint site for effective collaboration
- Monitor and analyze the project schedule and milestones in a SharePoint site, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Taking advantage of best practices and processes
- Building and customizing a SharePoint PMIS
- Creating a SharePoint communication plan
- Generating lists and document libraries, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN:

PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/919](http://LearningTree.ca/919) for more dates.

July 6-8 ..... Herndon	Dec. 14-16 .....Rockville
Aug. 17-19 .....Rockville	Jan. 11-13, 2017 ..... Herndon
Sep. 28-30 ..... Ottawa	Feb. 1-3, 2017 .....Alexandria
Nov. 9-11 ..... Herndon	Apr. 5-7, 2017 ..... Ottawa

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## Microsoft Project Introduction

Course 3702 • 3 Days

### YOU WILL LEARN HOW TO:

- Leverage Microsoft Project to plan and manage project schedules and resources
- Optimize plans and organize calendars
- Track progress and monitor variances between targets and actuals
- Assign resources to tasks and troubleshoot overallocation conflicts, and more ...

### HANDS-ON EXPERIENCE:

- Creating project plans, tasks and milestones
- Constructing and changing dependencies
- Controlling project, task and resource calendars
- Setting baselines and tracking progress, and more ...

### TUITION:

Standard **\$2,745**  
GOV **\$2,415**

### EARN:

PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/3702](http://LearningTree.ca/3702) for more dates.

July 6-8.....	Herndon	Dec. 14-16.....	Herndon
Sep. 14-16.....	Rockville	Jan. 25-27, 2017 .....	Toronto
Oct. 26-28 .....	Toronto	Feb. 8-10, 2017 .....	New York
Nov. 16-18.....	Ottawa	Apr. 19-21, 2017 .....	Rockville

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## Project Time and Cost Management

Course 923 • 4 Days

### YOU WILL LEARN HOW TO:

- Create a realistic and robust project plan
- Estimate tasks and aggregate to the project level
- Calculate critical path to determine project duration
- Determine total project costs, and more ...

### WORKSHOP ACTIVITIES INCLUDE:

- Determining in-flight project status
- Building a Work Breakdown Structure (WBS)
- Constructing a project network diagram
- Creating an ABC estimate, and more ...

### TUITION:

Standard **\$3,285**  
GOV **\$2,890**

### EARN:

Certifications,  
PMI PDUs

**SCHEDULE:** Visit [LearningTree.ca/923](http://LearningTree.ca/923) for more dates.

June 28-July 1 .....	Alexandria	Oct. 25-28 .....	Ottawa
July 26-29.....	New York	Dec. 19-22.....	Alexandria
Aug. 30-Sep. 2 .....	Rockville	Feb. 14-17, 2017 .....	New York
Oct. 4-7 .....	Toronto	Apr. 4-7, 2017 .....	Toronto

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**“ Learning Tree delivers great content, perfect pacing and effective presentations! Right after completing my training, I applied several new project management techniques, which were extremely effective in planning tasks and keeping them visible for reference.**



— J. Cumming, Project Manager  
Guardian Life Insurance



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# Tuition & Savings Plans

Tuition is the same for **In-Class & AnyWare™** Course Participation

		1 Day	2 Days	3 Days	4 Days	5 Days
STANDARD TUITION	First-Time Attendee	\$640	\$2,225	\$2,745	\$3,285	\$3,710
	 Returning Attendee*	\$600	\$2,005	\$2,475	\$2,960	\$3,340
GOVERNMENT TUITION**	First-Time Attendee	\$570	\$1,950	\$2,415	\$2,890	\$3,260
	 Returning Attendee*	\$540	\$1,755	\$2,175	\$2,605	\$2,935



\*\*Every year, over 2,500 Canadian Federal, Provincial and Local Government employees entrust their IT and management training to us. Learn more about how your organization can participate in government-specific tuition savings at: [LearningTree.ca/GOV](http://LearningTree.ca/GOV)



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## Enrol Online at: [LearningTree.ca](http://LearningTree.ca)

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8:30 a.m. to 5:00 p.m. (Eastern Time Zone)

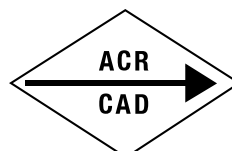
You will speak with a training advisor who will confirm your enrolment, answer any questions you may have and alert you to any tuition savings to which you may be entitled.



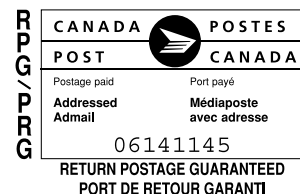
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*See page 3 for All Topics*