Learning Tree offers
30+ Cyber Security Courses
Including 40+ Certifications aligned with the National Cybersecurity Workforce Framework — developed by the U.S. Government’s National Initiative for Cybersecurity Education (NICE).

See inside to learn about:
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LearningTree.ca/Cyber • 1-800-843-8733
Learning Tree follows the NICE Framework to deliver the most effective Cyber Security Training available

The National Cybersecurity Workforce Framework, developed by the U.S. Government’s National Initiative for Cybersecurity Education (NICE), categorizes and describes cyber security job roles so that managers can:

► have a systematic way to plan and implement improvements in their organization’s cyber security measures.
► determine requirements and methods for training a modern cyber security workforce.

The NICE Framework has seven high-level categories, each comprised of several specialty areas. Each specialty area is comprised of tasks, as well as the Knowledge, Skills and Abilities (KSAs) required to complete the tasks. In essence, the NICE Framework outlines all the components needed to make up the ideal Cyber Security Workforce.

### NICE Framework Categories

<table>
<thead>
<tr>
<th>Securely Provision</th>
<th>Operate and Maintain</th>
<th>Protect and Defend</th>
<th>Investigate</th>
<th>Collect and Operate</th>
<th>Analyze</th>
<th>Oversight and Development</th>
</tr>
</thead>
</table>

*Developed by the United States National Initiative for Cybersecurity Education (NICE)*

### 40+ Cyber Security Certifications that Align with the NICE Framework

Learning Tree offers over 40 Specialist and Expert Certification Programs that directly align with the NICE Framework specialty areas within each category. This means everyone in your cyber security workforce can receive the most effective hands-on training available that is relevant to their job role. And when your Cyber Security Workforce is optimized and operating at peak performance, your organization is in the best position to protect itself from cyber threats.

### How Learning Tree Cyber Security Certifications Relate to the NICE Framework Specialty Area

The courses in the “Certified Network Infrastructure Defender” certification program would provide knowledge and skills vital for workers who must perform the tasks associated with “Computer Network Defense Infrastructure Support”.

See example below:

<table>
<thead>
<tr>
<th>Learning Tree Certified Program</th>
<th>NICE Framework Specialty Area</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Certified Network Infrastructure Defender</strong> Training that Fulfills Required KSAs*</td>
<td><strong>Computer Network Defence (CND) Infrastructure Support</strong> KSAs* Required for Job Roles</td>
</tr>
<tr>
<td><strong>SPECIALIST CERTIFICATION PATH</strong> System &amp; Network Security Introduction</td>
<td>Tests, implements, deploys, maintains, reviews and administers the infrastructure hardware and software that are required to effectively manage the computer network defense service provider network and resources. Monitors network to actively remediate unauthorized activities.</td>
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<tr>
<td>Course 468: Defending the Perimeter from Cyber Attacks Course 2010</td>
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<tr>
<td><strong>EXPERT CERTIFICATION PATH</strong> Endpoint Security &amp; Network Access Control</td>
<td></td>
</tr>
<tr>
<td>Course 2011</td>
<td></td>
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</tbody>
</table>

*KSA: Knowledge, Skills, Abilities

See pages 4-5 for 40+ Cyber Security Certifications Aligning with the NICE Framework.
Cyber Security Training —
Four Ways to Learn

Private Team Training and Coaching – Inside Your Organization

On-Site at Your Location for Custom Team Training
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.

PLUS, when you bring Learning Tree on-site into your organization, you'll have eliminated travel expenses and time out of the office.

Learn more at: LearningTree.ca/OnSite

Expert Team Coaching to Ensure Project Success
You can have one or more of Learning Tree’s expert instructor-advisors work side by side directly with your project team while coaching and guiding them to quickly and successfully overcome project obstacles.

With an Expert Instructor-Advisor embedded in your organization, your project team will:
► ACCELERATE project success
► IMPLEMENT process improvements
► OPTIMIZE resources

Learn more at: LearningTree.ca/Coach

Scheduled Live, Instructor-Led Courses

In-Class at Our Education Centres
Experience your course in a purpose-built Education Centre that provides many valuable amenities. During your course, you will be provided with a dedicated PC for your sole use to perform a wide range of hands-on exercises.

PLUS, you'll have opportunities to enhance the depth of your learning by collaborating with your instructor and classmates during your hands-on exercises.

Learn more at: LearningTree.ca/InClass

Online via AnyWare™ from Your Home or Work
Using AnyWare – Learning Tree’s popular, LIVE online attendance platform – you will experience the same hands-on instructor-led training delivered at our Education Centres worldwide from your Home, Work or nearest AnyWare Learning Centre.

You will perform sophisticated hands-on exercises using in-class hardware and software via your home or work computer. Plus, your instructor will be able to see how you’re doing and interactively offer concrete help.

Learn more at: LearningTree.ca/AnyWare

Learn more at: LearningTree.ca/Cyber or Call 1-800-843-8733
# 40+ Certifications for Every Level of Your Workforce

Learning Tree’s Cyber Security Certifications align with the National Cybersecurity Workforce Framework as defined by NICE. Learning Tree has partnered with elite Cyber Security Experts to ensure each path provides the best training for your Cyber Security Workforce — from Help Desk Administrator to Chief Information Security Officer.

## SECURELY PROVISION

Conceptualizing, Designing and Building Secure IT Systems

- **Information Assurance Auditor**
  - **MAPS TO NICE: Info. Assurance Compliance**
  - **SPECIALIST CERTIFICATION PATH**
    - Course 3674: Cyber Security: Accessibility and Quality
    - Course 3889: Vulnerability Assessment
  - **EXPERT CERTIFICATION PATH**
    - Advanced Security Auditing: Course 2047

## OPERATE & MAINTAIN

Providing Support, Administration and Maintenance of IT Systems

- **Help Desk Administrator**
  - **MAPS TO NICE: Customer Svc. & Tech. Support**
  - **SPECIALIST CERTIFICATION PATH**
    - Course 468: System & Network Security Introduction
    - Course 489: Social Engineering Deceptions and Defences
  - **EXPERT CERTIFICATION PATH**
    - CompTIA A+ Certification Exam Prep: Course 445

## PROTECT & DEFEND

Identification, Analysis and Mitigation of Threats to Internal IT Systems or Networks

- **Network Defence Analyst**
  - **MAPS TO NICE: CND Analyst**
  - **SPECIALIST CERTIFICATION PATH**
    - Course 3674: Cyber Security: Accessibility and Quality
    - Course 3889: Social Engineering Deceptions and Defences
  - **EXPERT CERTIFICATION PATH**
    - CompTIA Network+ Certification Exam Prep: Course 2708

- **Network Infrastructure Defender**
  - **MAPS TO NICE: CND Infrastructure Support**
  - **SPECIALIST CERTIFICATION PATH**
    - Course 2108: Endpoint Security & Network Access Control
  - **EXPERT CERTIFICATION PATH**
    - Endpoint Security & Network Access Control: Course 2101

## Software Security Engineer

MAPS TO NICE: Software Security Engineering

- **SPECIALIST CERTIFICATION PATH**
  - Course 940: Securing Web Apps, Services & Servers
  - Course 537: Penetration Testing: Tools and Techniques
  - Course 2781: Mobile App & Device Security Management

## Systems Developer

MAPS TO NICE: Systems Development

- **SPECIALIST CERTIFICATION PATH**
  - Course 540: Cyber Security: Accessibility and Quality
  - Course 6374: Cyber Security: Secure System Development

## Systems Planner

MAPS TO NICE: Systems Requirements Planning

- **SPECIALIST CERTIFICATION PATH**
  - Course 468: System & Network Security Introduction
  - Course 289: Disaster Recovery Planning
  - Course 2056: Identity Management

## SQL Server Data Administrator

MAPS TO NICE: Data Administration

- **SPECIALIST CERTIFICATION PATH**
  - Course 2107: SQL Server Introduction
  - Course 2108: SQL Server Database Administration
  - Course 382: Relational Database Design, Tools & Techniques

## Network Engineer

MAPS TO NICE: Network Services

- **SPECIALIST CERTIFICATION PATH**
  - Course 450: Introduction to Networking
  - Course 451: Network Configuration & Troubleshooting
  - Course 2708: CompTIA Network+ Certification Exam Prep

## Windows System Administrator

MAPS TO NICE: System Administration

- **SPECIALIST CERTIFICATION PATH**
  - Course 2411: Windows Server 2012 Administration
  - Course 963: Windows Server Group Policy Management
  - Course 2412: Windows Server Active Directory Domain Svc.

## Security & Vulnerability Assessor

MAPS TO NICE: Vulnerability Assessment & Mgmt.

- **SPECIALIST CERTIFICATION PATH**
  - Course 589: Vulnerability Assessment
  - Course 537: Penetration Testing: Tools and Techniques

## Systems Security Analyst

MAPS TO NICE: Systems Security Analysis

- **SPECIALIST CERTIFICATION PATH**
  - Course 2047: Defending the Perimeter from Cyber Attacks
  - Course 2012: Social Engineering Deceptions and Defences

---

“I learned a great deal of new information that will be extremely helpful back on the job. The most useful topics for me related to preventing network intrusion, and also exposing the existence of communication vulnerabilities with remote hosts.”

— K. Clemens, Info Sec Analyst, U.S. Department of Education

Course 468 • System and Network Security Introduction

“Great learning experience with deep exposure to key security tools. For me, the most useful topics were VLAN/Radius/NAP implementation.”

— J.F. Schickling, Security Software Engineer, Lockheed Martin

Course 2011 • Endpoint Security & Network Access Control
Specialist Certification:
► Successful completion of TWO Specified Courses
► Successful completion of Certification Exams associated with the Specified Courses

NOTE: All Certification Exams are FREE!

Expert Certification:
► Successful completion of a THIRD Specified Course and the associated exam
► Successful completion of an in-depth, Hands-On Assessment Exam

FOR CERTIFICATION DETAILS, PLEASE CALL 1-800-843-8733

“...This course exposed me to a number of key security areas such as vulnerability tools, tactics and techniques that will enhance my ability to identify, assess and mitigate potential risks to my organization.”

— R. Sanchez, Threat Analyst, U.S. Department of Defense
Crs 589 • Vulnerability Assessment: Protecting Your Organization

National Cybersecurity Workforce Framework Workshop
Workshop Course 3941 • 1 DAY • Visit: LearningTree.ca/3941

► You Will Learn How To:
• Improve cyber security performance through better alignment of staff skills with the NCWF
• Categorize the cyber security job roles and align them with the NCWF
• Develop an organization-specific cyber security workforce-needs plan
• Establish a training-needs plan using the National Initiative for Cybersecurity Education (NICE)

► Active Learning Workshop:
• Creating a cyber security business case with goals and training priorities
• Customizing cyber security job roles and skill profiles with the NCWF
• Assessing staff competencies required to perform cyber security job functions
• Utilizing needs and gap analysis to optimize workforce development needs

Please call 1-800-843-8733 to schedule your 1-DAY National Cybersecurity Workforce Framework Workshop.

Bring this 1-DAY Framework Workshop on-site to your organization and one of our expert instructor-advisors will help you and up to six key executives involved with Cyber Security apply the Framework to fit your reality.
Cyber Security: Accessibility and Quality
Hands-On Course 3674 • 4 DAYS • TUE-FRI  ▶ Visit: LearningTree.ca/3674
▶ You Will Learn How To:
  • Protect assets by selecting and managing effective security controls
  • Evaluate the thoroughness and quality of security controls
  • Provide a comprehensive strong Defence and continuously monitor it
  • Integrate accessibility into services and environments, 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 appropriate security controls
  • Implementing and assessing security controls, and more ...

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▶ Tuition 4-DAYS: STANDARD $3,285 GOV $2,890
▶ Savings & Enrolment: LearningTree.ca/3674

Vulnerability Assessment: Protecting Your Organization
Hands-On Course 589 • 4 DAYS • TUE-FRI  ▶ Visit: LearningTree.ca/589
▶ You Will Learn How To:
  • Detect and respond to vulnerabilities and minimize exposure to costly security breaches
  • Employ real-world exploits and evaluate their effect on your systems
  • Configure vulnerability scanners to identify weaknesses, and more ...
▶ Hands-On Experience:
  • Configuring scanners
  • Port scanning and enumeration
  • Scanning infrastructure, servers and desktops
  • Exploiting browsers, IDS, SQL and file services, and more ...

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▶ Tuition 4-DAYS: STANDARD $3,285 GOV $2,890
▶ Savings & Enrolment: LearningTree.ca/589

Securing Web Applications, Services and Servers
Hands-On Course 940 • 4 DAYS • TUE-FRI  ▶ Visit: LearningTree.ca/940
▶ You Will Learn How To:
  • Implement and test secure web applications in your organization
  • Identify, diagnose and correct web application vulnerabilities
  • Configure a web server to encrypt web traffic with HTTPS
  • Protect Ajax-powered Web 2.0 applications, 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, and more ...

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<td>5 - New York</td>
<td>19 - Rockville</td>
<td>2 - Ottawa</td>
<td>16 - Toronto</td>
<td>15 - Reston</td>
<td>12 - New York</td>
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▶ Tuition 4-DAYS: STANDARD $3,285 GOV $2,890
▶ Savings & Enrolment: LearningTree.ca/940

Penetration Testing: Tools and Techniques
Hands-On Course 537 • 4 DAYS • TUE-FRI  ▶ Visit: LearningTree.ca/537
▶ 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 your network to test and improve your security, and more ...
▶ Hands-On Experience:
  • Executing advanced port scanning
  • Performing injection attacks
  • Predicting and hijacking web sessions
  • Poisoning DNS to lure clients, and more ...

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<tr>
<th>Course Start Date</th>
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<td>19 - Ottawa</td>
<td>10 - Alexandria</td>
<td>7 - Toronto</td>
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▶ Tuition 4-DAYS: STANDARD $3,285 GOV $2,890
▶ Savings & Enrolment: LearningTree.ca/537

Earn: Certifications

Guaranteed to Run Courses

Visit LearningTree.ca/Cyber for:

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- More Dates
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- Guaranteed to Run Courses

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- LearningTree.ca/3674
- LearningTree.ca/589
- LearningTree.ca/940
- LearningTree.ca/537

Enrol at: LearningTree.ca/Cyber or Call 1-800-843-8733
Mobile Application and Device Security Management
Hands-On Course 2781 • 3 DAYS • WED-FRI  ► Visit: LearningTree.ca/2781
► You Will Learn How To:
• Develop secure applications for Android and iOS
• Leverage OWASP best practices for secure application development
• Identity 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
• Correcting mobile risks using OWASP techniques
• Encrypting application data on mobile devices
• Preventing injection flaws with enhanced input validation, and more ...

Course Start Date: 3 DAYS • WED-FRI
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► Tuition 3-DAYS: STANDARD $2,745 GOV $2,415
► Savings & Enrolment: LearningTree.ca/2781

System and Network Security Introduction
Workshop Course 468 • 4 DAYS • TUE-FRI  ► Visit: LearningTree.ca/468
► You Will Learn How To:
• Analyze your exposure to security threats and protect your organization’s systems and data
• Reduce your susceptibility to an attack by deploying firewalls and data encryption, and more ...
► Active Learning Workshop:
• Cracking passwords using rainbow tables
• Scanning systems for configuration issues
• Ensuring trusted server access via digital certificates
• Preventing unwanted network access with a firewall, and more ...

Course Start Date: 4 DAYS • TUE-FRI
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► Attend IN-CLASS -or- LIVE, ONLINE from Home, Work or AnyWare Centre using AnyWare™. Learn more: visit LearningTree.ca/AnyWare
► Tuition 4-DAYS: STANDARD $3,285 GOV $2,890
► Savings & Enrolment: LearningTree.ca/468

Disaster Recovery Planning: Ensuring Business Continuity
Workshop Course 289 • 4 DAYS • TUE-FRI  ► Visit: LearningTree.ca/289
► You Will Learn How To:
• Implement a Business Continuity Management System (BCMS)
• Set BCM in the organizational context
• Perform a Business Impact Analysis (BIA) to identify business priorities
• Identify and respond to risk, and more ...
► Active Learning Workshop:
• Identifying the impact on critical business functions
• Assessing risk: exposure, vulnerabilities and threats
• Developing appropriate countermeasures
• Organizing team structures during incident response, and more ...

Course Start Date: 4 DAYS • TUE-FRI
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► Tuition 4-DAYS: STANDARD $3,285 GOV $2,890
► Savings & Enrolment: LearningTree.ca/289

Identity Management
Hands-On Course 2056 • 4 DAYS • TUE-FRI  ► Visit: LearningTree.ca/2056
► 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 (FIM), 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 ...

Course Start Date: 4 DAYS • TUE-FRI
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► Tuition 4-DAYS: STANDARD $3,285 GOV $2,890
► Savings & Enrolment: LearningTree.ca/2056

You Can Bring ANY Course Inside Your Organization!
Learn more: See page 3 or visit LearningTree.ca/OnSite
Workshop Course 468 • 4 DAYS • TUE-FRI  
**Visit:** LearningTree.ca/468  
► You Will Learn How To:  
• Analyze your exposure to security threats and protect your organization's systems and data  
• Reduce your susceptibility to an attack by deploying firewalls and data encryption, and more ...  
► Active Learning Workshop:  
• Cracking passwords using rainbow tables  
• Scanning systems for configuration issues  
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► Tuition 4-DAYS: STANDARD $3,285  
► Savings & Enrolment: LearningTree.ca/468

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Social Engineering Deceptions and Defences  
Hands-On Course 2012 • 3 DAYS • WED-FRI  
**Visit:** LearningTree.ca/2012  
► You Will Learn How To:  
• Defend against social engineering deceptions that threaten security  
• Plan and execute security assessments for human weaknesses  
• Promote vigilance and implement procedures to defeat deceptions  
• Mitigate personnel vulnerabilities with security awareness, and more ...  
► Hands-On Experience:  
• Profiling passwords and harvesting public information  
• Conducting a dumpster dive to gather intelligence  
• Identifying interview techniques that elicit private information, and more ...  
► Tuition 3-DAYS: STANDARD $2,745  
► Savings & Enrolment: LearningTree.ca/2012

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CompTIA A+ Certification Exam Prep  
Hands-On Course 445 • 5 DAYS • MON-FRI  
**Visit:** LearningTree.ca/445  
► 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 5-DAYS: STANDARD $3,710  
► Savings & Enrolment: LearningTree.ca/445

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SQL Server Introduction  
Hands-On Course 2107 • 4 DAYS • TUE-FRI  
**Visit:** LearningTree.ca/2107  
► 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 & 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 ...

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Enrol at: LearningTree.ca/Cyber or Call 1-800-843-8733
SQL Server Database Administration

Hands-On Course 2108 • 4 DAYS • TUE-FRI  ▶ Visit: LearningTree.ca/2108

▶ You Will Learn How To:
• Administer SQL Server 2012 and 2014 with SQL Server Management Studio & Transact-SQL
• Ensure SQL Server security with logins, roles, users and permissions
• Develop backup strategies and recover from disasters, and more ...

▶ Hands-On Experience:
• Employing Transact-SQL and the graphical tools
• Upgrading SQL Server 2005 and 2008 databases
• Implementing security for logins, databases & objects
• Restoring a database to point-of-failure, and more ...

Course Start Date:
4 DAYS • TUE-FRI
NOV 17 - Alexandria
DEC 8 - Toronto
JAN 23 - Rockville
FEB 8 - Toronto
MAR 12 - Ottawa
APR 31 - Toronto
MAY 7 - Rockville
JUN 9 - Rockville
JUL 27 - Toronto

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Relational Database Design, Tools and Techniques

Hands-On Course 382 • 4 DAYS • TUE-FRI  ▶ Visit: LearningTree.ca/382

▶ You Will Learn How To:
• Design, build and use a relational database using proven methods
• Ensure database design accurately models business requirements
• Normalize and denormalize data when appropriate to optimize performance, and more ...

▶ Hands-On Experience:
• Analyzing and documenting databases using CASE tools
• Identifying entities, attributes, relationships and their properties
• Developing and conceptualizing data models
• Building a database using a data model as a blueprint, and more ...

Course Start Date:
4 DAYS • TUE-FRI
DEC 8 - Ottawa
JAN 26 - New York
FEB 9 - Toronto
MAR 16 - Rockville
APR 5 - Reston
MAY 10 - Alexandria
JUN 17 - Rockville
JUL 7 - Ottawa
27 - Toronto

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Introduction to Networking

Workshop Course 450 • 4 DAYS • TUE-FRI  ▶ Visit: LearningTree.ca/450

▶ 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, and more ...

▶ Active Learning Workshop:
• 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 ...

Course Start Date:
4 DAYS • TUE-FRI
NOV 17 - Toronto
DEC 1 - Reston
JAN 19 - Ottawa
FEB 9 - New York
MAR 15 - Ottawa
APR 12 - Toronto
MAY 24 - Ottawa
JUN 21 - Reston
JUL 5 - Toronto

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Network Configuration and Troubleshooting

Hands-On Course 451 • 4 DAYS • TUE-FRI  ▶ Visit: LearningTree.ca/451

▶ 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 ...

Course Start Date:
4 DAYS • TUE-FRI
DEC 1 - New York
JAN 5 - Toronto
FEB 2 - Reston
MAR 29 - Ottawa
APR 12 - Reston
MAY 3 - Rockville
JUN 21 - Toronto
JUL 5 - Rockville
AUG 2 - Ottawa

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Preparing for the CompTIA Network+ Certification Exam

Workshop Course 2708 • 5 DAYS • MON-FRI • Visit: LearningTree.ca/2708

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 ...

Active Learning Workshop:
- Practicing simulated exam questions
- Participating in time-stressed practice exams
- Developing successful learning strategies for exam preparation
- Configuring wireless communications, and more ...

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Tuition 5-DAYS: STANDARD $3,710 GOV $3,260

Savings & Enrolment: LearningTree.ca/2708

Windows Server 2012 Administration

Hands-On Course 2411 • 4 DAYS • TUE-FRI • Visit: LearningTree.ca/2411

You Will Learn How To:
- Administer, secure and troubleshoot Windows Server 2012 R2
- Secure servers with Windows Firewall and Dynamic Access Control
- Build a high-availability environment
- Diagnose and repair system failures, and more ...

Hands-On Experience:
- Creating performance baselines with Performance Monitor
- Configuring Server Manager groups
- Managing the Windows boot process
- Leveraging the cloud with Hyper-V, and more ...

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Savings & Enrolment: LearningTree.ca/2411

Windows Server Group Policy Management

Hands-On Course 963 • 4 DAYS • TUE-FRI • Visit: LearningTree.ca/963

You Will Learn How To:
- Manage workstations/servers with Group Policy Objects (GPOs)
- Lock down user desktops and control computer configurations
- Leverage techniques to target GPOs to specific clients
- Create reliable and robust software-deployment strategies, and more ...

Hands-On Experience:
- Establishing a central store and utilize starter GPOs
- Generating advanced reports for improved diagnostics
- Writing WQL queries
- Configuring core security settings, and more ...

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Tuition 4-DAYS: STANDARD $3,285 GOV $2,890

Savings & Enrolment: LearningTree.ca/963

Windows Server 2012 Active Directory Domain Services

Hands-On Course 2412 • 4 DAYS • TUE-FRI • Visit: LearningTree.ca/2412

You Will Learn How To:
- Install, manage and secure Windows Server 2012 Active Directory
- Restructure existing domains for Active Directory Domain Services
- Troubleshoot domain creation and manage Active Directory services
- Customize the Active Directory by extending the schema, 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 ...

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Online Cyber Security Skills Assessments

Identify the strengths and gaps of your Cyber Security Personnel

Our ‘Online Cyber Security Skills Assessment Tool’ features real-world skills assessments, which validate both depth of knowledge and skill level in specific cyber security job roles. The easy-to-use tool can also accurately identify skill gaps and learning paths at the individual and team levels. Plus, it provides a range of detailed reports valuable in making informed staffing decisions.

Our ‘Online Cyber Security Skills Assessment Tool’ will prove instrumental in optimizing your cyber security team’s performance.

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### Cyber Security: Accessibility and Quality

**Hands-On Course 3674 • 4 DAYS • TUE-FRI**

► **You Will Learn How To:**
- Protect assets by selecting and managing effective security controls
- Evaluate the thoroughness and quality of security controls
- Provide a comprehensive strong Defense and continuously monitor it
- Integrate accessibility into services and environments, 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 appropriate security controls
- Implementing and assessing security controls, and more ...

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► Savings & Enrolment: LearningTree.ca/3674

### System and Network Security Introduction

**Workshop Course 468 • 4 DAYS • TUE-FRI**

► **You Will Learn How To:**
- Analyze your exposure to security threats and protect your organization’s systems and data
- Reduce your susceptibility to an attack by deploying firewalls and data encryption, and more ...

► **Active Learning Workshop:**
- Cracking passwords using rainbow tables
- Scanning systems for configuration issues
- Ensuring trusted server access via digital certificates
- Preventing unwanted network access with a firewall, and more ...

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► Savings & Enrolment: LearningTree.ca/468

### Defending the Perimeter from Cyber Attacks

**Hands-On Course 2010 • 4 DAYS • TUE-FRI**

► **You Will Learn How To:**
- Fortify your network perimeter to provide an integrated Defence
- Prevent or mitigate the effects of network attacks with a firewall
- Detect network attacks with Intrusion Detection and Prevention (IDP) systems, 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 ...

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► Savings & Enrolment: LearningTree.ca/2010

### Endpoint Security and Network Access Control

**Hands-On Course 2011 • 4 DAYS • TUE-FRI**

► **You Will Learn How To:**
- Enforce security policies to protect data from internal/external threats
- Deploy NAC to prevent malware contamination
- Implement Data Loss Prevention (DLP) through host-based IDS/IPS and endpoint encryption, and more ...

► **Hands-On Experience:**
- Implementing port security
- Deploying agent software to manage endpoints
- Assigning endpoints dynamically to VLANs
- Enforcing anti-malware policies, and more ...

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CompTIA Security+ Certification Exam Prep
Workshop Course 446 • 5 DAYS • MON-FRI ★ Visit: LearningTree.ca/446

► 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 more ...

► Active Learning Workshop:
• Practicing exams daily for the six domains
• Analyzing protocols and security issues with Wireshark
• Employing an IDS to detect and deflect attacks
• Protecting communication and digital signatures, and more ...

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Digital Forensics: Windows System and Mobile Investigations
Hands-On Course 2055 • 5 DAYS • MON-FRI ★ Visit: LearningTree.ca/2055

► 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, and more ...

► Hands-On Experience:
• Mounting and performing keyword searching on forensic images
• Tracking user activity through Windows registry, e-mail and web browser forensics
• Documenting and presenting forensic reports, evidence, and more ...

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Vulnerability Assessment: Protecting Your Organization
Hands-On Course 589 • 4 DAYS • TUE-FRI ★ Visit: LearningTree.ca/589

► You Will Learn How To:
• Detect and respond to vulnerabilities and minimize exposure to costly security breaches
• Employ real-world exploits and evaluate their effect on your systems
• Configure vulnerability scanners to identify weaknesses, and more ...

► Hands-On Experience:
• Configuring scanners
• Port scanning and enumeration
• Scanning infrastructure, servers and desktops
• Exploiting browsers, IDS, SQL and file services, and more ...

Course Start Date:
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Penetration Testing: Tools and Techniques
Hands-On Course 537 • 4 DAYS • TUE-FRI ★ Visit: LearningTree.ca/537

► 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 your network to test and improve your security, and more ...

► Hands-On Experience:
• Executing advanced port scanning
• Performing injection attacks
• Predicting and hijacking web sessions
• Poisoning DNS to lure clients, and more ...

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Learn more: See page 3 or visit LearningTree.ca/OnSite
### Advanced Persistent Threats: Targeted Attacks & Defences

**Hands-On Course 2054 • 4 DAYS • TUE-FRI**

**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, 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 ...

**Course Start Date:**
- **FEB** 16 - Rockville
- **MAR** 1 - New York
- **APR** 5 - Reston
- **MAY** 24 - Rockville
- **JUN** 7 - New York
- **JUL** 5 - Rockville

**Additional Information:**
- Attend **IN-CLASS** or **LIVE, ONLINE** from Home, Work or AnyWare Centre using AnyWare™. Learn more: visit LearningTree.ca/AnyWare
- **Tuition 4-DAYS:** **STANDARD** $3,285 **GOV** $2,890
- **Savings & Enrolment:** LearningTree.ca/2054

### Preparing for the CompTIA Network+ Certification Exam

**Workshop Course 2708 • 5 DAYS • MON-FRI**

**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 ...

**Active Learning Workshop:**
- Practicing simulated exam questions
- Participating in time-stressed practice exams
- Developing successful learning strategies for exam preparation
- Configuring wireless communications, and more ...

**Course Start Date:**
- **NOV** 30 - Reston
- **DEC** 14 - New York
- **JAN** 11 - Rockville
- **FEB** 29 - Reston
- **MAR** 21 - New York
- **APR** 11 - Rockville
- **JUN** 6 - Reston
- **JUL** 20 - New York

**Additional Information:**
- Attend **IN-CLASS** or **LIVE, ONLINE** from Home, Work or AnyWare Centre using AnyWare™. Learn more: visit LearningTree.ca/AnyWare
- **Tuition 5-DAYS:** **STANDARD** $3,710 **GOV** $3,260
- **Savings & Enrolment:** LearningTree.ca/2708

### Penetration Testing: Tools and Techniques

**Hands-On Course 537 • 4 DAYS • TUE-FRI**

**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 your network to test and improve your security, and more ...

**Hands-On Experience:**
- Executing advanced port scanning
- Performing injection attacks
- Predicting and hijacking web sessions
- Poisoning DNS to lure clients, and more ...

**Course Start Date:**
- **DEC** 8 - Toronto
- **JAN** 5 - Ottawa
- **FEB** 2 - New York
- **MAR** 22 - Reston
- **APR** 19 - Ottawa
- **MAY** 10 - Alexandria
- **JUN** 7 - Toronto
- **JUL** 27 - Ottawa

**Additional Information:**
- Attend **IN-CLASS** or **LIVE, ONLINE** from Home, Work or AnyWare Centre using AnyWare™. Learn more: visit LearningTree.ca/AnyWare
- **Tuition 4-DAYS:** **STANDARD** $3,285 **GOV** $2,890
- **Savings & Enrolment:** LearningTree.ca/537

### Digital Forensics: Windows System and Mobile Investigations

**Hands-On Course 2055 • 5 DAYS • MON-FRI**

**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, and more ...

**Hands-On Experience:**
- Mounting and performing keyword searching on forensic images
- Tracking user activity through Windows registry, e-mail and web browser forensics
- Documenting and presenting forensic reports, evidence, and more ...

**Course Start Date:**
- **JAN** 11 - New York
- **FEB** 8 - Reston
- **MAR** 14 - Rockville
- **APR** 11 - New York
- **MAY** 16 - Reston
- **JUN** 20 - Rockville
- **JUL** 11 - New York

**Additional Information:**
- Attend **IN-CLASS** or **LIVE, ONLINE** from Home, Work or AnyWare Centre using AnyWare™. Learn more: visit LearningTree.ca/AnyWare
- **Tuition 5-DAYS:** **STANDARD** $3,710 **GOV** $3,260
- **Savings & Enrolment:** LearningTree.ca/2055
Vulnerability Assessment: Protecting Your Organization

**Hands-On Course 589 • 4 DAYS • TUE-FRI**  
**Visit: LearningTree.ca/589**

**You Will Learn How To:**
- Detect and respond to vulnerabilities and minimize exposure to costly security breaches
- Employ real-world exploits and evaluate their effect on your systems
- Configure vulnerability scanners to identify weaknesses, and more ...  

**Hands-On Experience:**
- Configuring scanners
- Port scanning and enumeration
- Scanning infrastructure, servers and desktops
- Exploiting browsers, IDS, SQL and file services, and more ...

**Course Start Date:**  
**4 DAYS • TUE-FRI**

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**Tuition 4-DAYS: STANDARD $3,285  GOV $2,890**  
**Savings & Enrolment: LearningTree.ca/589**

CompTIA Security+ Certification Exam Prep

**Workshop Course 446 • 5 DAYS • MON-FRI**  
**Visit: LearningTree.ca/446**

**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 more ...

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

**Course Start Date:**  
**5 DAYS • MON-FRI**

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**Tuition 5-DAYS: STANDARD $3,710  GOV $3,260**  
**Savings & Enrolment: LearningTree.ca/446**

Penetration Testing: Tools and Techniques

**Hands-On Course 537 • 4 DAYS • TUE-FRI**  
**Visit: LearningTree.ca/537**

**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 your network to test and improve your security, and more ...

**Hands-On Experience:**
- Executing advanced port scanning
- Performing injection attacks
- Predicting and hijacking web sessions
- Poisoning DNS to lure clients, and more ...

**Course Start Date:**  
**4 DAYS • TUE-FRI**

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**Attend IN-CLASS or LIVE, ONLINE from Home, Work or AnyWare Centre using AnyWare™. Learn more: visit LearningTree.ca/AnyWare**  
**Tuition 4-DAYS: STANDARD $3,285  GOV $2,890**  
**Savings & Enrolment: LearningTree.ca/537**

Social Engineering Deceptions and Defences

**Hands-On Course 2012 • 3 DAYS • WED-FRI**  
**Visit: LearningTree.ca/2012**

**You Will Learn How To:**
- Defend against social engineering deceptions that threaten security
- Plan and execute security assessments for human weaknesses
- Promote vigilance and implement procedures to defeat deceptions
- Mitigate personnel vulnerabilities with security awareness, and more ...

**Hands-On Experience:**
- Profiling passwords and harvesting public information
- Conducting a dumpster dive to gather intelligence
- Identifying interview techniques that elicit private information, and more ...

**Course Start Date:**  
**3 DAYS • WED-FRI**

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**Attend IN-CLASS or LIVE, ONLINE from Home, Work or AnyWare Centre using AnyWare™. Learn more: visit LearningTree.ca/AnyWare**  
**Tuition 3-DAYS: STANDARD $2,745  GOV $2,415**  
**Savings & Enrolment: LearningTree.ca/2012**

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Learn more: See page 3 or visit LearningTree.ca/OnSite
“Awesome course! A++. The instructor did a great job with great content. The information on social engineering — information gathering, eliciting info, persuasion and countermeasures — were very useful, and the exercises in dumpster diving, access controls and elicitation were eye opening!”

— T. Kirk, IS Manager, Hart Telephone Company
Course 2012 • Social Engineering Deceptions and Defences

“I’ve attended several Cyber Security courses with Learning Tree and they’ve all been excellent. The instructors always did a great job of conveying complex material in a clear and understandable way.”

— T. Wither, Chief, USAF
Course 589 • Vulnerability Assessment: Protecting Your Organization
## Cyber Security for the Boardroom and C-Suite

**Workshop Course 2050 • 1/2 DAY • 4 HOURS**  
**Visit: LearningTree.ca/2050**

**You Will Learn How To:**  
- Assess the responsibilities of the board for corporate cyber security  
- Determine a proper security posture for your organization  
- Identify gaps in coverage and countermeasures  
- Prepare for advanced persistent threats, and more ...

**Active Learning Workshop:**  
- Analyzing social engineering attacks that bypass technical safeguards  
- Reviewing security failures in large organizations due to weak cyber security postures  
- Leveraging the use of a security framework, and more ...

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**Attend IN-CLASS or LIVE, ONLINE from Home, Work or AnyWare Centre using AnyWare™. Learn more: visit LearningTree.ca/AnyWare**  
**Tuition 1/2-DAY: STANDARD $640  GOV $570  Savings & Enrolment: LearningTree.ca/2050**

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

**Workshop Course 2051 • 4 DAYS • TUE-FRI**  
**Visit: LearningTree.ca/2051**

**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 ...

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

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**Attend IN-CLASS or LIVE, ONLINE from Home, Work or AnyWare Centre using AnyWare™. Learn more: visit LearningTree.ca/AnyWare**  
**Tuition 4-DAYS: STANDARD $3,285  GOV $2,890  Savings & Enrolment: LearningTree.ca/2051**

## CEH: Certified Ethical Hacker

**Hands-On Course 2031 • 5 DAYS • MON-FRI**  
**Visit: LearningTree.ca/2031**

**You Will Learn How To:**  
- Apply countermeasures to secure your system against threats & attacks  
- Test access to your organizational data using ethical hacking techniques  
- Implement real-world hacking techniques to test system security  
- Employ tools to analyze company risks, weaknesses, and more ...

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

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**Attend IN-CLASS or LIVE, ONLINE from Home, Work or AnyWare Centre using AnyWare™. Learn more: visit LearningTree.ca/AnyWare**  
**Tuition 5-DAYS: STANDARD $3,710  GOV $3,260  Savings & Enrolment: LearningTree.ca/2031**

## Preparing for the CASP Certification Exam

**Workshop Course 2046 • 5 DAYS • MON-FRI**  
**Visit: LearningTree.ca/2046**

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

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

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**Tuition 5-DAYS: STANDARD $3,710  GOV $3,260  Savings & Enrolment: LearningTree.ca/2046**
**Enrol Online at:** LearningTree.ca/Cyber

From the course description and schedule pages on our website, you can enrol online. You will receive a call from a training advisor to confirm your enrolment.

**Or Call:** 1-800-THE-TREE (843-8733)

8:30 am to 5:00 pm (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.

---

**Hassle-Free Enrolment — Exclusively from Learning Tree**

- The tuition for your course is **NOT DUE** until a month after you attend
- There are **NO FEES** for Rescheduling or Canceling your course at **ANY** time
- Your satisfaction is **100% Guaranteed** or you pay no tuition

---

**Course Tuition Includes:**

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  You’ll be provided with copies of instructor presentations and the hands-on exercises for your course in both printed and electronic formats.

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  You can take your course exam on the last day of your course and receive:
  - Eligibility to participate in **Specialist and Expert Certifications**
  - **A Certificate of Achievement** with the designation “Awarded with Distinction”
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  You may schedule a free coaching session with your instructor for help and guidance back at work

- **After-Course Computing Sandbox**
  You’ll be given remote access to a preconfigured virtual machine for you to redo your hands-on exercises, develop/test new code, and experiment with the same software used in your course back at work

**NOTE**: The Computing Sandbox™ is not available for all courses.

---

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► Communicate complex concepts clearly, understandably and with the enthusiasm that inspires your IT staff to learn

► Provide your IT staff with both real-world conceptual knowledge and the practical hands-on skills they need to enhance their on-the-job performance

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50% of each course involves “Learning by Doing”, using state-of-the-art computers for performing hands-on exercises and real-world simulations. This extensive hands-on experience ensures you absorb all the knowledge and skills you will need to apply when returning to work.

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► 2.4 million participants trained In-Class and via AnyWare™ – our superior, online attendance platform

► 2,000 courses, 500 customized, delivered to client locations each year

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