

# **Microsoft Office Specialist**

## **Improving the Workplace**



## Study Overview

Employees with Microsoft® Office Specialist certifications clearly contribute to a more knowledgeable and productive working environment. A study of 14,000 Office Specialists and 1,200 supervisors of Office Specialists from North America, the United Kingdom, and Japan confirms that employees with Office Specialist certifications contribute to a more knowledgeable and productive working environment. Office Specialist certifications in Microsoft Word, Excel, PowerPoint®, Access, Outlook®, and/or Project improve the workplace not only for employees and their employers but also for their customers.

## FAST FACTS

The study, conducted in 2001, verifies the value of being certified in Microsoft Office:

- **FAST FACT:** Office Specialist certification increases employee competence, productivity, and credibility.  
85% of supervisors say Office Specialists are more productive because of their Office Specialist certification.  
.....
- **FAST FACT:** Office Specialist certification proves individuals have the ability to effectively use Microsoft Office desktop programs.  
89% of supervisors say Office Specialists are more proficient users of Microsoft Office programs.  
.....
- **FAST FACT:** Office Specialist exams test relevant skills employees actually use in the workplace.  
86% of supervisors say Office Specialists are more credible than non-certified employees.  
.....
- **FAST FACT:** Office Specialist certification supports the hiring process by providing a useful measure for screening and selecting individuals for employment.  
71% of supervisors use Office Specialist in hiring, promotion, and advancement decisions.

## Study Design

This study was conducted to determine the value of Office Specialist certification to the individuals certified in one or more Microsoft Office programs and to supervisors of certified Office Specialists. Over 14,000 Office Specialists and 1,200 supervisors of Office Specialists were given web-based surveys to evaluate the effect of the certification on their working environment and to rate the value of the certification on employee performance.

### Employee Questions

Office Specialists participating in the study were “information workers” by job function. In general, these employees use computer technology to perform the majority of their job-related tasks. They were asked the following questions:

- Is Office Specialist certification relevant to the most important and frequently performed aspects of your job?
- Has the certification process increased your competence with Microsoft Office programs?
- Has the certification process increased your on-the-job productivity?
- Does certification contribute to your professional credibility with coworkers, customers, and employers?

In addition to rating the effect of certification on their competence, productivity, and credibility, Office Specialists were asked to provide responses on the following topics:

- Demographic characteristics
- Employment history
- Preparation and payment for certification
- The effect of certification on their earning potential
- Loyalty to Microsoft Office programs
- Interest in advances in desktop computing

### Supervisor Questions

Supervisors of Office Specialists were asked the following questions:

- Do Office Specialists have an advanced level of competence?
- Are Office Specialist certified employees better able to use the Microsoft Office programs for which they are certified?
- Are Office Specialist certified employees more productive?
- Are Office Specialist certified employees more professionally credible to coworkers, customers, and employers?
- Does your organization realize tangible benefits when you hire Office Specialists?

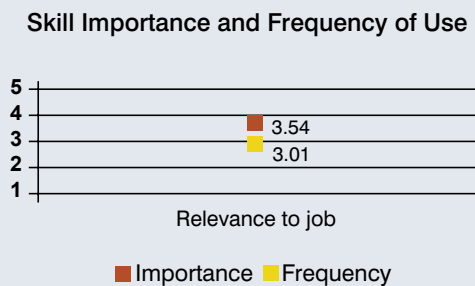
In addition to rating the effect of certification on their employees, Supervisors were asked to provide responses on the following topics:

- Effect of certification on an employee's prospects for advancement and/or recruitment
- Their own interest in desktop computing
- Their company's loyalty to Microsoft Office programs
- Their level of influence in the software acquisition process

## Office Specialist Responses

Through their answers to research questions, Office Specialists indicated that the majority of the skills included in the certification are used frequently and are important to their jobs. They also indicated that certification has a tremendously positive impact on their ability to use Microsoft Office programs in the workplace. They are more productive because of the certification, and their coworkers, customers, and employers consider them to be more credible.

### *Is Office Specialist certification relevant to the most important and frequently performed aspects of your job?*

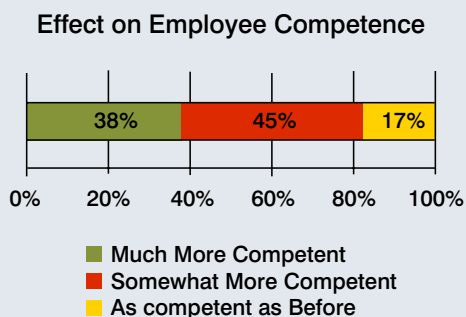


#### Importance and Relevance

Yes. Office Specialists indicated that the skills required to obtain certification include those most important and frequently performed in their jobs.

Office Specialists were asked to rate the importance of the skills they gained through certification using a five-point scale ranging from "Not Important" to "Very Important." The average level of importance was 3.54. Office Specialists were also asked to rate the frequency of use of the skills they gained through certification using a five-point scale ranging from "Less Than Once a Month" to "More Than Once a Day." The average frequency was 3.01.

### *Has the certification process increased your competence with Microsoft Office programs?*



#### Competence

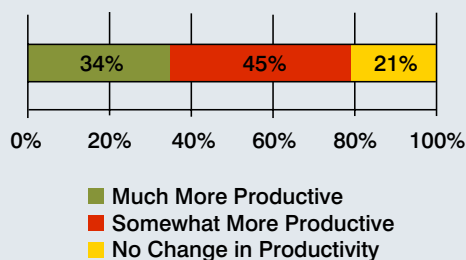
Yes. Office Specialists indicated that the process of obtaining Office Specialist certification has a positive effect on their ability to competently use Microsoft Office programs.

Office Specialists were asked to rate the effect of certification on their ability to use Microsoft Office programs using a three-point scale ranging from "As Competent as Before" to "Much More Competent." Overall, 83 percent of Office Specialists indicated the certification process had a positive effect on their competence with Microsoft Office programs. Of these respondents, 38 percent indicated the process made them "Much More Competent."



## *Has the certification process increased your on-the-job productivity?*

**Effect on Employee Productivity**



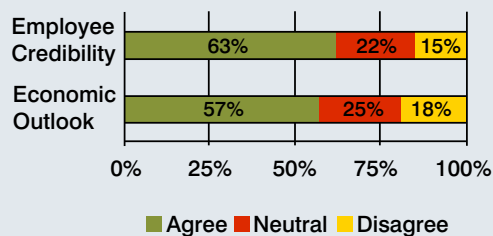
### **Productivity**

Yes. Office Specialists indicated that they are better able to use Microsoft Office programs to more productively perform their jobs thanks to Office Specialist certification.

Office Specialists were asked to rate the effect of certification on their productivity using a three-point scale ranging from "No Change in Productivity" to "Much More Productive With the Respective Program(s)." Overall, 79 percent of Office Specialists indicated the process of obtaining certification had a positive effect on their productivity. Of these respondents, 34 percent indicated the process made them "Much More Productive."

## *Does certification contribute to your professional credibility with coworkers, customers, and employers?*

**Effect on Employee Credibility and Economic Outlook**



### **Credibility**

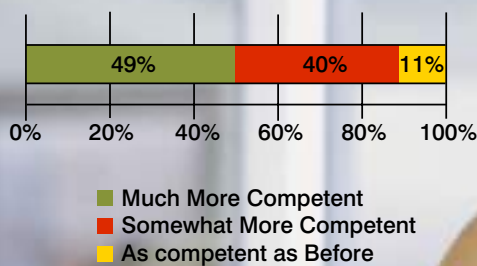
Yes. Office Specialists indicated that certification produces a positive effect on coworkers, customers, and employers. In fact, the majority of Office Specialists believe certification has enhanced their economic outlook.

Office Specialists were asked to rate the perception of credibility their certification has on their coworkers, customers, and employers using a five-point scale from "Strongly Disagree" to "Strongly Agree." Overall, 63 percent of employees agreed that Office Specialist certification has a positive effect on their professional credibility. On average, 57 percent of respondents believe Office Specialist certification has directly enhanced their economic outlook.

## Supervisor Responses

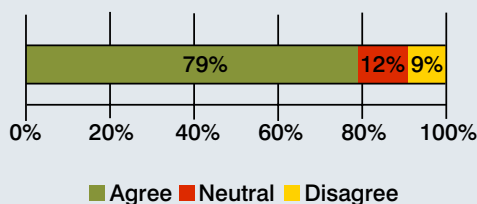
Supervisors of Office Specialists indicated they experience tangible benefits from hiring and managing Office Specialist certified employees. Office Specialists directly benefit their departments and organizations because they more competently use Microsoft Office programs to perform job tasks and are more productive and credible to coworkers and customers. Supervisors also indicated that certification is influential in making hiring, promotion, and advancement decisions.

Effect on Employee Competence



### *Are Office Specialist certified employees better able to use the Microsoft Office programs for which they are certified?*

Office Specialist Are More Competent than Non-Certified Employees



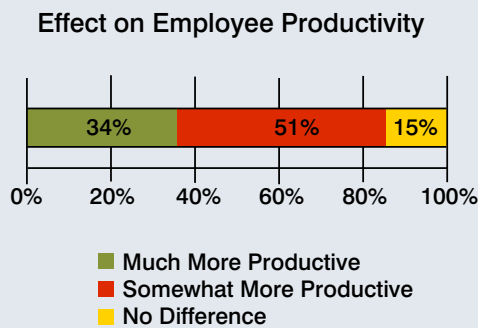
### Competence

Yes. Supervisors indicated that Office Specialists competently use Microsoft Office programs to perform job tasks.

Supervisors were asked to rate the effect of Office Specialist certification on employee competence using a three-point scale ranging from "As Competent as Before" to "Much More Competent." Overall, 89 percent of supervisors indicated Office Specialist certification has a positive effect on an employee's ability to effectively use Microsoft Office programs. Supervisors were also asked to compare the competency of employees with and without Office Specialist certification using a five-point scale ranging from "Strongly Disagree" to "Strongly Agree." An overwhelming majority—79 percent—indicated Office Specialist certified employees more competently use Microsoft Office programs to perform job tasks than their non-certified peers.



## Are Office Specialist certified employees more productive?

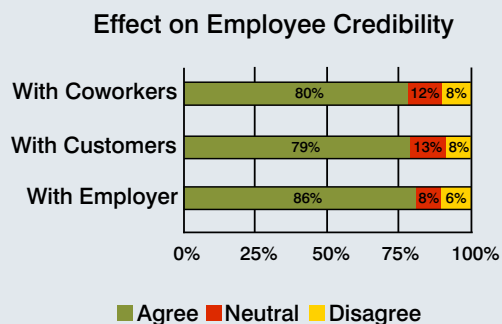


### Productivity

Yes. Supervisors indicated that Office Specialists use Microsoft Office programs more productively to perform their jobs.

Supervisors were asked to compare the productivity of employees with and without Office Specialist certification using a three-point scale ranging from "No Difference" to "Much More Productive." Overall, 85 percent of supervisors indicated Office Specialist certified employees are more productive in the aspects of their jobs that require use of Microsoft Office programs than non-certified employees. Of these respondents, 34 percent rated Office Specialist certified employees as "Much More Productive."

## Are Office Specialist certified employees more professionally credible to coworkers, customers, and employers?



### Credibility

Yes. Supervisors indicated that Office Specialists are more credible to their coworkers, customers, and employers.

Supervisors were asked to rate their opinion of Office Specialist certification on their employees as well as how certification is perceived by an employee's coworkers and customers using a five-point scale ranging from "Strongly Disagree" to "Strongly Agree." Overall, 86 percent of supervisors indicated Office Specialist certification has a positive effect on their opinion of an employee's abilities. Approximately 80 percent indicated Office Specialist certification produces a positive effect on coworkers and customers. Supervisors were also asked to estimate the effect of Office Specialist certification on an employee's consideration for recruitment or promotion. Overall, 71 percent of supervisors indicated Office Specialist certification is advantageous to employees considered in hiring, promotion, and advancement decisions.

## Conclusion

This study of Office Specialist employees and their supervisors clearly demonstrates a relationship between Office Specialist certification and the ability of employees to competently use Microsoft Office programs; work more efficiently and productively; achieve professional credibility with coworkers, customers, and employers; and obtain an advantage in hiring, promotion, and advancement decisions.

**Office Specialists and their supervisors agree: Microsoft Office Specialists Improve the Workplace.**



**Microsoft Office Specialist**  
**[www.microsoft.com/officespecialist](http://www.microsoft.com/officespecialist)**

---

For more information on Microsoft Office Specialist certification, please visit [www.microsoft.com/officespecialist](http://www.microsoft.com/officespecialist). Microsoft Corporation. All rights reserved. Microsoft, and the Office logo are either registered trademarks of Microsoft Corporation in the United States and/or other countries.










# Office 365 Training & Certification

	Network Manager & IT Pro	Teachers & Staff	Students
<b>Certification</b>	<a href="#">MCP 73-321</a> : Deploying Office 365 <a href="#">MCP 73-323</a> : Administering Office 365	<a href="#">MOS 77-891</a> : Microsoft Office 365	<a href="#">MOS 77-891</a> : Microsoft Office 365
<b>E-Learning</b>	Administering Office 365 ( <i>prep for 73-323</i> ) <ul style="list-style-type: none"> <li>• "Getting Started with Office 365"</li> <li>• "Managing Office 365 Users, Roles and Identities"</li> <li>• "Installing Client Computers with Remote Connectivity for Office 365"</li> <li>• "Administering Exchange Online Mailboxes and Groups in Office 365"</li> <li>• "Managing Exchange Online Security and Compliance in Office 365"</li> <li>• "Configuring Exchange Online in a Hybrid Environment for Office 365"</li> <li>• "Integrating SharePoint Online with Office 365"</li> <li>• "Integrating Lync Online with Office 365"</li> </ul>	Sharing and Working with Teams using Microsoft Office 365 <i>(prep for exam 77-891)</i>  Communicating and Collaborating with Microsoft Office 365 <i>(prep for exam 77-891)</i>	Sharing and Working with Teams using Microsoft Office 365 <i>(prep for exam 77-891)</i>  Communicating and Collaborating with Microsoft Office 365 <i>(prep for exam 77-891)</i>
<b>E-Reference</b>		MOS Study Guide for Office 365	MOS Study Guide for Office 365
<b>Additional IT Academy Benefits</b>	<ul style="list-style-type: none"> <li>• +50% Discount on MCP exam fees</li> <li>• Free Technical E-Learning catalogue</li> <li>• +50% Discount on Microsoft Official Courseware (MOC)</li> </ul>	<ul style="list-style-type: none"> <li>• 10 x Free MOS Vouchers p.a.</li> <li>• Free Microsoft Certified Trainer (MCT) Membership</li> <li>• 5 x E-Reference Library Subscriptions</li> <li>• Academic Pricing on Site Licenses for MOS</li> </ul>	

## WHICH ORACLE CERTIFICATION IS RIGHT FOR YOU?

The Oracle Certification Program certifies candidates on skills and knowledge related to Oracle products and technologies, such as Java, Oracle Database, MySQL, Solaris, Linux, Oracle Cloud, and Applications. Credentials are granted based on a combination of passing exams, training and performance-based assignments, depending on the level of certification. Oracle certifications are tangible benchmarks of experience and expertise that help you stand out in a crowd among employers. [Learn more at \*\*certification.oracle.com\*\*](https://www.oracle.com/certification)

CERTIFICATION	CORE TRACK			SPECIALITY TRACK		
	Oracle Certified ASSOCIATE	Oracle Certified PROFESSIONAL	Oracle Certified MASTER	Oracle Certified EXPERT	Oracle Certified SPECIALIST	Oracle Certified JUNIOR ASSOCIATE
	 					
PREPARES YOU FOR THESE ROLES	Administrator Developer DBA Java Programmer	Administrator Developer DBA Java Programmer	Administrator Developer DBA Java Enterprise Architect	Administrator Developer DBA Java Programmer Java Architect	Administrator Developer DBA Java Programmer Implementer Consultant Business User	Student
RECOGNIZES THESE SKILLS	Intermediate Foundational 1-2 Years Experience	Advanced Strong Foundation 2-3 Years Experience	Perform Hands on Tasks that Demonstrate Problem Solving Skills	Specific Technology, Architecture or Domains, Advanced Foundation Skills	Focused Specialized Skills and Knowledge	Academic



## BE YOUR BEST

Technology doesn't stand still and neither should you. Maintain your Oracle skills and retain your market edge with your knowledge of Oracle technology. With a Professional, Expert, or Master level of advanced certification, you prove that you are experienced, motivated, and committed to being the best in your field.

In today's fast-changing global IT environment, your most important investment is in yourself. Job experience coupled with an Oracle certification demonstrates your skill and proficiency in the industry and sets you on the path to a better and more rewarding career.



### 6x

Increased LinkedIn  
profile views for people  
with certifications,  
boosting their visibility  
and career opportunities<sup>1</sup>



### 7%

Salary growth  
for Oracle Certified  
professionals<sup>2</sup>



### 13.7%

Salary difference  
between Oracle Certified  
professionals and their  
noncertified colleagues  
worldwide<sup>3</sup>

Learn more at  
[certification.oracle.com](https://certification.oracle.com)

[1] "The Future Value of Certifications: Insights from LinkedIn's DataTrove," ATP 2015 Innovations in Testing

[2] "Value of IT Certifications," vti - CompTIA, October 14, 2014

[3] Oracle Certification Survey

# Microsoft IT Academy Certification Roadmap

Microsoft IT Academy (ITA) Program provides students with the technology skills they need to be successful in college and a career. With Microsoft Certification, students can validate those skills and pursue a career path in business or technology. ITA Program members receive attractive price reductions on Microsoft Certification exams so they can enable skills development and certification for their students globally.

Start by choosing your certification and career path



Secondary Students:

**Microsoft Office Specialist (MOS)**  
Students pursuing a career using client-side productivity applications for business or IT should pursue MOS certification. MOS certification validates mastery of Microsoft Office skills that all businesses require, setting students apart as they go on to higher education or enter the workforce.

**Microsoft Technology Associate (MTA)**  
For a technology career, students should start with MTA certification, which validates core technology concepts in infrastructure, database and development. MTA helps students explore technology for today's popular IT careers. MTA is recommended, but not required, prior to pursuing a deeper technical certification path. MTA certification may be earned in one semester and can be used to demonstrate capability and commitment for entry-level IT positions.

2-year Post-Secondary Students:

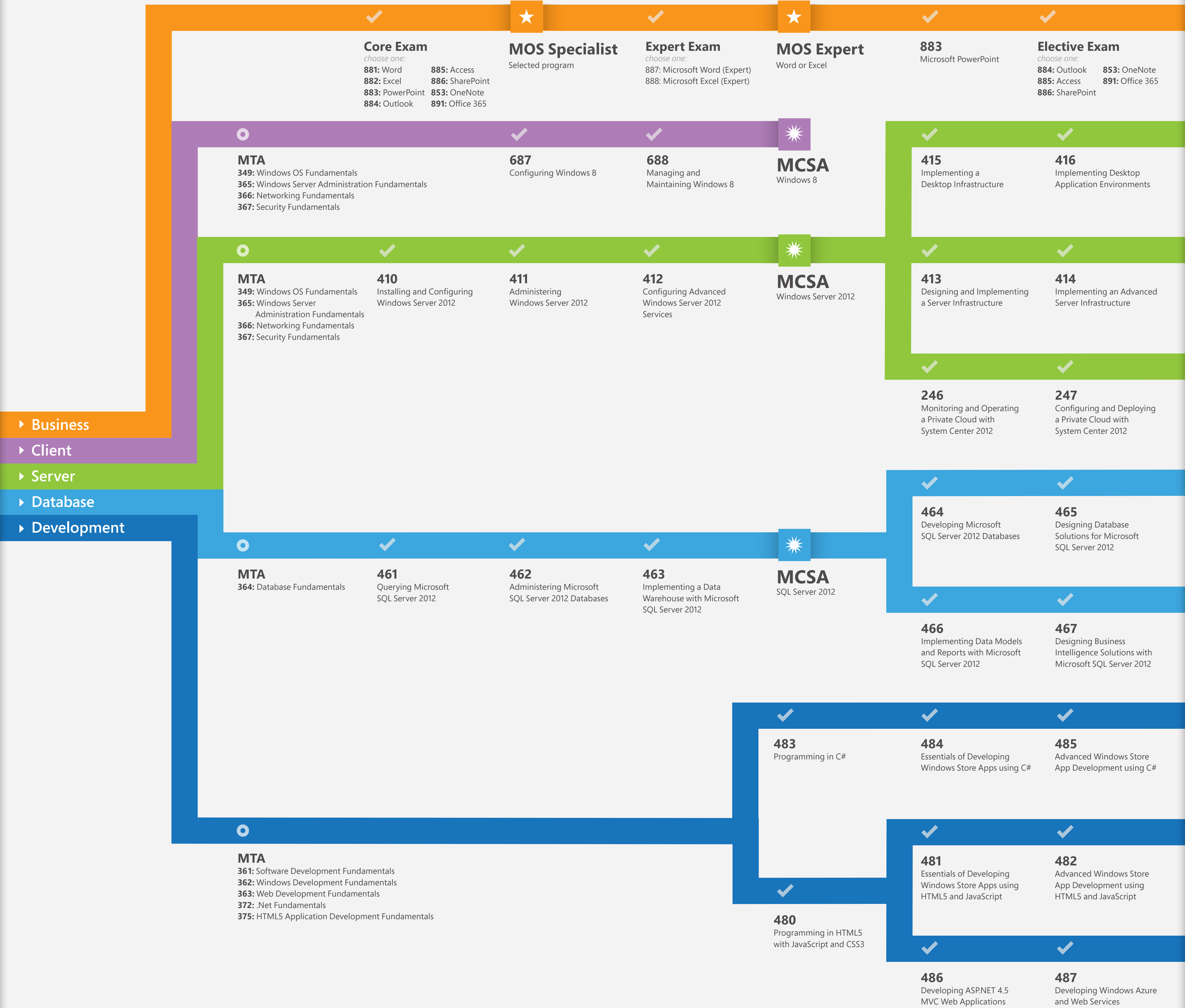
**Microsoft Certified Solutions Associate (MCSA)**  
The MCSA certification is recommended for 2-year program students and those who already have some knowledge of IT. MCSA validates deeper skills on Microsoft technology and cloud computing, and allows students to gain experience in a classroom setting versus on the job. MCSA is required for becoming an MCSE.

4-Year Post-Secondary Students:

**Microsoft Certified Solutions Expert (MCSE) / Microsoft Certified Solutions Developer (MCSD)**  
The MCSE and MCSD certifications are recommended for students in a 4-year program. The MCSE builds off of the experience gained while achieving the MCSA certification, and further develops an individual's expertise in cloud technologies. The MCSD builds off of MTA development fundamentals. MCSE and MCSD certifications allow students to acquire additional experience developing, deploying and maintaining full technology solutions in a classroom setting versus on the job. Upon graduation and certification, a student will be in a competitive position for a mid-level IT job.

For more information visit [www.microsoft.com/itacademy](http://www.microsoft.com/itacademy)

- Microsoft Technology Associate**  
Non-compulsory training courses and exams that help prepare individuals for professional certification. MTA exams and classroom content are included as benefits within the Microsoft IT Academy Program subscription.
- Microsoft Official Course and Exam Number**  
Official training courses and exams are available through Microsoft Learning Partners worldwide.
- Microsoft Certified Solutions Associate**  
MCSA certification validates core platform skills and is required to achieve MCSE certification.
- Microsoft Office Specialist**  
MOS certification enables individuals to tap the full functionality of the Microsoft Office programs.



## Certification Destinations:

MOS Master  
Microsoft Office 2010

MCSE  
Desktop Infrastructure

MCSE  
Server Infrastructure

MCSE  
Private Cloud

MCSE  
Data Platform

MCSE  
Business Intelligence

MCS  
Windows Store Apps–C#

MCS  
Windows Store Apps–HTML5

MCS  
Web Apps



### Get Certified!

**Are your Veritas certification credentials up-to-date?** If not, [get started today](#) and earn an industry-recognized credential that let's your employers and customers know that you have the skills, experience, and expertise required to successfully administer Veritas products and solutions.

**Preparing for Veritas certification?** [Certification Prep Videos](#) are available to help you prepare, with additional videos releasing with upcoming exams. Visit the [Partner Instructor-Led Training](#) page on PartnerNet to download current class schedules, then contact your regional education team to register for a class:

- NAM: [americas.education@veritas.com](mailto:americas.education@veritas.com)
- LAM: [lamc.education@veritas.com](mailto:lamc.education@veritas.com)
- APJ: [apj.education@veritas.com](mailto:apj.education@veritas.com)
- EMEA: [europe.education@veritas.com](mailto:europe.education@veritas.com)

**PLEASE NOTE:** Use the [Partner Instructor-Led Training](#) page on PartnerNet to view discounted pricing for Partners, and specify that you are a Partner when contacting the education team in order to receive the Partner discount for Instructor-Led or Virtual Academy training.

### Certification Exams

Recently released and upcoming new Veritas Certified Specialist exams include:

- [Administration of Veritas Backup Exec 15](#) – Prep Video – [Watch Now!](#)
- [Administration of Veritas Backup Exec 16](#) – Prep Video – [Watch Now!](#)
- [Administration of Veritas eDiscovery Platform 8.2 for Users](#)
- [Administration of Veritas eDiscovery Platform 8.2 for Administrators](#) – Prep Video – [Watch Now!](#)
- [Administration of Veritas Enterprise Vault 12.x](#) – Prep Video – [Watch Now!](#)
- [Administration of Veritas InfoScale Storage 7.1 for UNIX/Linux](#) – Prep Video – [Watch Now!](#)
- [Administration of Veritas InfoScale Availability 7.1 for UNIX/Linux](#) – Prep Video – [Watch Now!](#)
- [Administration of Veritas InfoScale Storage 7.2 for UNIX/Linux](#) – Prep Video – [Watch Now!](#)
- [Administration of Veritas InfoScale Availability 7.2 for UNIX/Linux](#) – Prep Video – [Watch Now!](#)
- [Administration of Veritas NetBackup 7.7](#)
- [Administration of Veritas NetBackup 7.7 and NetBackup Appliances 2.7](#)
- [Administration of Veritas NetBackup 8.0](#)
- [Administration of Veritas NetBackup 8.0 and Appliances 3.0](#)

### Training Courses

Can't attend an in-person training class? Learn about our new [Virtual On-Demand Training](#) (VODT) option! Recently released and upcoming new training courses include:

Veritas Backup Exec 15:

- [Veritas Backup Exec 15: Administration](#) (5 days)

Veritas Backup Exec 16:

- [Veritas Backup Exec 16: Administration](#) (5 days)
- [Veritas Backup Exec 16: For Microsoft Applications](#) (VODT)
- [Veritas Backup Exec 16: For Virtualized Environments](#) (VODT)
- [Veritas Backup Exec 16 Differences: 15 to 16](#) (VODT)





## Veritas Education Services

Veritas Certified Specialist (VCS) Exam and Training Release Newsletter  
September 2017



### Veritas NetBackup 7.7:

- [Veritas NetBackup 7.7: Differences 7.6.1 to 7.7.2](#) (3 days)
- [Veritas NetBackup 7.7: Administration](#) (5 days)
- [Veritas NetBackup 7.7: Advanced Administration](#) (4 days)
- [Veritas NetBackup 7.7: Maintenance and Troubleshooting](#) (4 days)
- [Veritas NetBackup Appliances 2.7.x: Configuration and Management](#) (2-days)
- [Veritas NetBackup 7.7.x Media Server Deduplication Pool](#) (2-days)

### Veritas NetBackup 8.0:

- [Veritas NetBackup 8.0: Administration](#) (5 days)
- [Veritas NetBackup 8.0: Advanced Administration](#) (5 days and [VODT](#))
- [Veritas NetBackup 8.0: Maintenance and Troubleshooting](#) (4 days)
- [Veritas NetBackup 8.0 Differences: 7.7 to 8.0 - Windows](#) ([VODT](#))
- [Veritas NetBackup 8.0 Differences: 7.7 to 8.0 - Linux](#) ([VODT](#))
- [Veritas NetBackup 8.0: Media Server Deduplication Pool](#) ([VODT](#))

### Veritas InfoScale Storage 7.1 and Veritas InfoScale Availability 7.1:

- [Veritas InfoScale Storage 7.1 for Unix/Linux: Administration](#) (5 days)
- [Veritas InfoScale Availability 7.1 for Unix/Linux: Administration](#) (5 days)
- [Veritas InfoScale Availability 7.1 for UNIX/Linux: Advanced Administration I](#) (5-days)
- [Veritas InfoScale Availability 7.1 for UNIX/Linux: Advanced Administration II](#) (5-days)

### Veritas InfoScale Storage 7.2 and Veritas InfoScale Availability 7.2:

- [Veritas InfoScale Storage 7.2 for Unix/Linux: Administration](#) (5 days)
- [Veritas InfoScale Storage 7.2 for UNIX/Linux: Advanced Administration](#) (5-days)
- [Veritas InfoScale Availability 7.2 for Unix/Linux: Administration](#) (5 days)
- [Veritas InfoScale Availability 7.2 for UNIX/Linux: Advanced Administration I](#) (5-days and [VODT](#))
- [Veritas InfoScale Availability 7.2 for UNIX/Linux: Advanced Administration II](#) (5-days and [VODT](#))

### Veritas InfoScale Storage 7.3 and Veritas InfoScale Availability 7.3:

- Veritas InfoScale Storage 7.3 for Unix/Linux: Administration (5 days) – Coming in October 2017
- Veritas InfoScale Availability 7.3 for Unix/Linux: Administration (5 days) – Coming in October 2017

### Veritas Enterprise Vault 12:

- [Veritas Enterprise Vault 12: Differences 11 to 12](#) (2 days)
- [Veritas Enterprise Vault 12.x: Administration I](#) (5 days)
- [Veritas Enterprise Vault 12.x: Administration II](#) (4 days)
- [Veritas Enterprise Vault 12.x: Administering File System Archiving](#) ([VODT](#))
- [Legal Discovery Using Veritas Enterprise Vault 12 Discovery Accelerator](#) (3 days)
- [Veritas Enterprise Vault 12.x: Implementation and Deployment](#) (4-days)

### Veritas eDiscovery Platform 8.2:

- [Veritas eDiscovery Platform 8.2: Transparent Predictive Coding](#) (2-days)
- [Veritas eDiscovery Platform 8.2: For Users](#) (3-days)
- [Veritas eDiscovery Platform 8.2: For Administrators](#) (2-days)



## Veritas Education Services

Veritas Certified Specialist (VCS) Exam and Training Release Newsletter  
September 2017



### Veritas Data Insight 5.2:

- [Veritas Data Insight 5.2: Administration](#) (3-days and [VODT](#))

### Veritas Velocity 2.7:

- [Veritas Velocity 2.7: Administration](#) ([VODT](#))

### Veritas Access:

- [Veritas Access: Administration](#) (5 days)

### Veritas Resiliency Platform:

- [Veritas Resiliency Platform: Administration with Demonstration Lab](#) (5 days)
- [Veritas Resiliency Platform: Administration with Premium Hands-On Labs](#) (5 days)



## Parcours pour SPÉCIALISTE EN TECHNOLOGIE – Un examen pour chacune de ces certifications



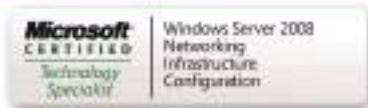
### Examen

**70-640 : TS :** Configuration d'une infrastructure Active Directory avec Windows Server 2008

### Cours

**6238 :** Configuration des services de domaine Active Directory Windows Server 2008, 5 jours

**6426A :** Configuration et dépannage de la gestion des accès et des identités dans Active Directory Windows Server 2008, 3 jours



### Examen

**70-642 : TS :** Configuration d'une infrastructure réseau avec Windows Server 2008

### Cours

**6741 :** Configuration et dépannage d'une infrastructure réseau Windows Server 2008, 5 jours



### Examen

**70-643 : TS :** Configuration d'une infrastructure d'applications pour Windows Server 2008

### Cours

**6744 :** Configuration et dépannage d'IIS 7.0 dans Windows Server 2008, 3 jours

**6428A :** Configuration et dépannage de serveurs Terminal Services sous Windows Server 2008, 2 jours

## MCITP : ADMINISTRATEUR SERVEUR – Trois examens pour obtenir cette certification



### Examen

**70-642 : TS :** Configuration d'une infrastructure réseau avec Windows Server 2008

### Cours

**6741 :** Configuration et dépannage d'une infrastructure réseau Windows Server 2008, 5 jours



### Examen

**70-640 : TS :** Configuration d'une infrastructure Active Directory avec Windows Server 2008

### Cours

**6238 :** Configuration des services de domaine Active Directory Windows Server 2008, 5 jours

**6426A :** Configuration et dépannage de la gestion des accès et des identités dans Active Directory Windows Server 2008, 3 jours



### Examen

**70-646 : PRO :** Administrateur Windows Server 2008

### Cours

**6738 :** Administration et maintenance des serveurs Windows Server 2008, 5 jours

## MCITP: ADMINISTRATEUR ENTREPRISE – Cinq examens pour obtenir cette certification



### Examen

**70-620 : TS :** Configuration de Microsoft Windows Vista

### Cours

**5948 :** Installation et configuration du système d'exploitation Windows Vista, 3 jours

**5950 :** Configuration des applications et systèmes Windows Vista Mobile, 2 jours

### OU

**70-624 : TS :** Déploiement et maintenance de systèmes Windows Vista et de postes de travail Microsoft Office system 2007

**5946 :** Déploiement des postes de travail Microsoft Windows Vista Professionnel, 3 jours

**5940 :** Déploiement de Microsoft Office Professionnel 2007, 2 jours



### Examen

**70-643 : TS :** Configuration d'une infrastructure d'applications pour Windows Server 2008

### Cours

**6744 :** Configuration et dépannage d'IIS 7.0 dans Windows Server 2008, 3 jours

**6428A :** Configuration et dépannage de serveurs Terminal Services sous Windows Server 2008, 2 jours



### Examen

**70-642 : TS :** Configuration d'une infrastructure réseau avec Windows Server 2008

### Cours

**6741 :** Configuration et dépannage d'une infrastructure réseau Windows Server 2008, 5 jours



### Examen

**70-640 : TS :** Configuration d'une infrastructure Active Directory avec Windows Server 2008

### Cours

**6238 :** Configuration des services de domaine Active Directory Windows Server 2008, 5 jours

**6426A :** Configuration et dépannage de la gestion des accès et des identités dans Active Directory Windows Server 2008, 3 jours



### Examen

**70-647 : PRO :** Administrateur Entreprise sur Windows Server 2008

### Cours

**6435A :** Conception d'une infrastructure réseau Windows Server 2008, 5 jours

**6436A :** Conception d'une infrastructure et des services Active Directory Windows Server 2008, 5 jours

**6437A :** Conception d'une infrastructure de plateforme applicative Windows Server 2008, 3 jours

# Mise à jour des certifications pour Windows Server 2008

## MISE À JOUR DES COMPÉTENCES WINDOWS SERVER – Un examen de transition pour plusieurs certifications MCTS

Migration possible pour les professionnels MCSE et MCSA Windows Server 2003 vers des certifications Windows Server 2008



## MCSE 2003 vers MCITP Windows Server 2008

Trois examens vers MCITP – Administrateur Entreprise

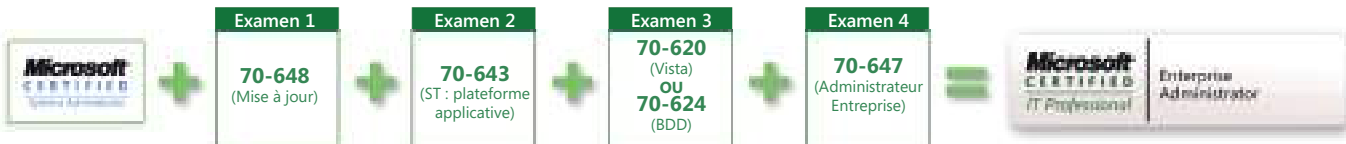


Deux examens vers MCITP – Administrateur serveur



## MCSA 2003 vers MCITP Windows Server 2008

Quatre examens vers MCITP – Administrateur Entreprise



Deux examens vers MCITP – Administrateur serveur





# CISCO CAREER CERTIFICATIONS AND PATHS

The internationally respected Cisco Career Certifications program brings valuable and measurable rewards to network professionals, their managers, and the organizations that employ them. With NIL Learning, you can obtain the in-depth knowledge and professional expertise needed to deploy technology in a fast and optimal way, or to achieve the desired Cisco certification level.

	ARCHITECT	CLOUD	COLLABORATION	DATA CENTER	DESIGN	INDUSTRIAL /IOT	ROUTING & SWITCHING	SECURITY	SERVICE PROVIDER	WIRELESS	
EXPERT	<b>CCAR</b>  Required Exam: CCAR Board Exam Recommended Preparation: Refer to CCAR exam syllabus Prerequisites: Valid Cisco CCDE certification can act as a prerequisite, along with a thorough understanding of networking infrastructure principles		<b>CCIE COLLABORATION</b>  Required Exam: 400-051 CCE Collaboration Written Exam and CCIE Collaboration Lab Exam Recommended Preparation: Refer to CCIE Collaboration exam syllabus Prerequisites: There are no formal prerequisites for CCIE certification. You are expected to have an in-depth understanding of the topics in the exam blueprints, a minimum of seven years job experience, and a thorough understanding of networking infrastructure principles	<b>CCIE DATA CENTER</b>  Required Exam: 350-080 or 400-151 CCIE Data Center Written Exam and CCIE Data Center Lab Exam Recommended Preparation: Cisco Data Center CCIE Unified Computing Workshop (DCUC), Cisco Data Center CCIE Unified Fabric Workshop (DCUFW) Prerequisites: There are no formal prerequisites for CCIE certification. You are expected to have an in-depth understanding of the topics in the exam blueprints and strongly encouraged to have three to five years of job experience before attempting certification	<b>CCDE</b>  Required Exam: 352-001 CCDE Written Exam and CCDE Practical Exam Recommended Preparation: Refer to CCDE exam syllabus Prerequisites: There are no formal prerequisites for CCDE certification. You are expected to have an in-depth understanding of the topics in the exam blueprints, a minimum of seven years job experience, and a thorough understanding of networking infrastructure principles		<b>CCIE ROUTING &amp; SWITCHING</b>  Required Exam: 400-101 CCIE Routing & Switching Written Exam and CCIE Routing and Switching Lab Exam Recommended Preparation: Cisco Expert-Level Training for CCIE Routing and Switching Advanced Workshop 1 (CIERS-1), Cisco Expert-Level Training for CCIE Routing and Switching Advanced Workshop 2 (CIERS-2), Implementing Cisco Quality of Service (QoS), Implementing Cisco MPLS (MPLS), IPv6 Fundamentals, Design and Deployment (IP6FD) Prerequisites: There are no formal prerequisites for CCIE Routing and Switching certification. You are expected to have an in-depth understanding of the topics in the exam blueprints and strongly encouraged to have three to five years of job experience before attempting certification	<b>CCIE SECURITY</b>  Required Exam: 350-018 CCIE Security Written Exam and CCIE Security Lab Exam Recommended Preparation: Refer to CCIE Security exam syllabus Prerequisites: There are no formal prerequisites for CCIE Security certification. You are expected to have an in-depth understanding of the topics in the exam blueprints and strongly encouraged to have three to five years of job experience before attempting certification	<b>CCIE SERVICE PROVIDER</b>  Required Exam: 400-201 CCIE Service Provider Written Exam and CCIE Service Provider Lab Exam Recommended Preparation: Refer to CCIE Service Provider exam syllabus Prerequisites: There are no formal prerequisites for CCIE Service Provider certification. You are expected to have an in-depth understanding of the topics in the exam blueprints and strongly encouraged to have three to five years of job experience before attempting certification	<b>CCIE WIRELESS</b>  Required Exam: 400-351 CCIE Wireless Written Exam and CCIE Wireless Lab Exam Recommended Preparation: Refer to CCIE Wireless exam syllabus Prerequisites: There are no formal prerequisites for CCIE Wireless certification. You are expected to have an in-depth understanding of the topics in the exam blueprints and strongly encouraged to have three to five years of job experience before attempting certification	
PROFESSIONAL		<b>CCNP CLOUD</b>  Required exams: 300-504 CLDNF, 300-505 CLDES, 300-506 CLDAUT, 300-507 CLDACI Recommended Training: Implementing and Troubleshooting the Cisco Cloud Infrastructure (CLDNF), Designing the Cisco Cloud (CLDES), Automating the Cisco Enterprise Cloud (CLDAUT), Building the Cisco Cloud with Application Centric Infrastructure (CLDACI) Prerequisites: Valid CCNA Cloud certification or any CCIE certification can act as a prerequisite	<b>CCNP COLLABORATION</b>  Required exams: 300-070 CPTVI, 300-075 CPTV2, 300-080 CTCOLLAB, 300-085 CAPPS Recommended training: Implementing Cisco IP Telephony and Video, Part 1 (CPTVI), Implementing Cisco IP Telephony and Video, Part 2 (CPTV2), Troubleshooting Cisco IP Telephony and Video (CTCOLLAB), Implementing Cisco Collaboration Applications (CAPPS) Prerequisites: Valid CCNA Collaboration certification or any Cisco CCIE certification can act as a prerequisite	<b>CCNP DATA CENTER</b>  Required exams: 642-999 DCUCI, 642-997 DCUFI AND 642-998 DCUCD, 642-996 DCUFD or 642-035 DCUCT, 642-980 DCUFT Recommended training: Implementing Cisco Data Center Unified Computing (DCUCI), Implementing Cisco Data Center Unified Fabric (DCUFI), Designing Cisco Data Center Unified Computing (DCUCD), Troubleshooting Cisco Data Center Unified Computing (DCUCT), Troubleshooting Cisco Data Center Unified Fabric (DCUFT) Prerequisites: Valid Cisco CCNA Data Center certification or any Cisco CCIE certification can act as a prerequisite	<b>CCDP</b>  Required exams: 300-101 ROUTE, 300-115 SWITCH, 642-874 ARCH Recommended training: Implementing Cisco IP Routing (ROUTE), Implementing Cisco IP Switched Networks (SWITCH), Designing Cisco Network Service Architectures (ARCH) Prerequisites: Valid Cisco CCNA and CCNA Routing and Switching or any Cisco CCIE certification can act as a prerequisite		<b>CCNP ROUTING &amp; SWITCHING</b>  Required exams: 300-101 ROUTE, 300-115 SWITCH, 300-135 TSHOOT Recommended training: Implementing Cisco IP Routing (ROUTE), Implementing Cisco IP Switched Networks (SWITCH), Troubleshooting and Maintaining Cisco IP Networks (TSHOOT) Prerequisites: Valid CCNA Routing and Switching certification or any CCIE Certification can act as a prerequisite	<b>CCNP SECURITY</b>  Required exams: 300-206 SENSE, 300-207 SITCS, 300-208 SISAS, 300-209 SIMOS Recommended training: Implementing Cisco Edge Network Security Solutions (SENSE), Implementing Cisco Threat Control Solutions (SITCS), Implementing Cisco Secure Access Solutions (SISAS), Implementing Cisco Secure Mobility Solutions (SIMOS) Prerequisites: Valid CCNA Security or any CCIE certification can act as a prerequisite	<b>CCNP SERVICE PROVIDER</b>  Required exams: 642-883 SPROUTE, 642-885 SPADVROUTE, 642-887 SPCORE, 642-889 SPEDGE Recommended training: Deploying Cisco Service Provider Network Routing (SPROUTE), Deploying Cisco Service Provider Advanced Network Routing (SPADVROUTE), Implementing Cisco Service Provider Next-Generation Core Network Services (SPCORE), Implementing Cisco Service Provider Next-Generation Edge Network Services (SPEDGE) Prerequisites: Valid CCNA Service Provider, or valid CCNA Routing and Switching plus have passed minimum of 1 CCIP exam (QOS, BGP, MPLS, BGP+MPLS, ROUTE, BSCI), or valid CCIP, or any CCIE certification	<b>CCNP WIRELESS</b>  Required exams: 642-732 CUWSS, 642-742 UWWNL, 642-747 UWNMS, 642-737 IAUWS Recommended training: Conducting Cisco Unified Wireless Site Survey (CUWSS), Implementing Cisco Unified Wireless Voice Networks (UWVNN), Implementing Cisco Unified Wireless Mobility Services (UWNMS), Implementing Advanced Cisco Unified Wireless Security (IAUWS) Prerequisites: Valid Cisco CCNA Wireless or any Cisco CCIE certification can act as a prerequisite	
ASSOCIATE		<b>CCNA CLOUD</b>  Required Exam: 210-451 CLDFND, 210-455 CLDADM Recommended Training: Understanding Cisco Cloud Fundamentals (CLDFND), Introducing Cisco Cloud Administration (CLDADM) Prerequisites: No prerequisites	<b>CCNA COLLABORATION</b>  Required exams: 210-080 CICA, 210-085 CIVND Recommended training: Implementing Cisco Collaboration Devices (CICA), Implementing Cisco Video Network Devices, Part 1 (CIVND1), Implementing Cisco Video Network Devices, Part 2 (CIVND2) Prerequisites: No prerequisites	<b>CCNA DATA CENTER</b>  Required exams: 640-995 DCICN, 640-996 DCICT Recommended training: Introducing Cisco Data Center Networking (DCICN), Introducing Cisco Data Center Technologies (DCICT) Prerequisites: No prerequisites	<b>CCDA</b>  Required exams: 640-864 DESIGN Recommended training: Designing for Cisco Internetwork Solutions (DESIGN) Prerequisites: A valid CCENT or a valid CCNA Routing and Switching or any CCIE certification can act as a prerequisite	<b>CCNA INDUSTRIAL</b>  Required exam: 200-601 MINS2 Recommended training: Managing Industrial Networking for Manufacturing with Cisco Technologies (MINS2) Prerequisites: (200-401) Managing Industrial Networks with Cisco Networking Technologies (MINS1) or CCENT or CCNA Routing and Switching, or any valid CCIE certification and (200-601) Managing Industrial Networks for Manufacturing with Cisco Technologies (MINS2)	<b>CCNA INDUSTRIAL</b>  Required exam: 200-601 MINS2 Recommended training: Managing Industrial Networking for Manufacturing with Cisco Technologies (MINS2) Prerequisites: (200-401) Managing Industrial Networks with Cisco Networking Technologies (MINS1) or CCENT or CCNA Routing and Switching, or any valid CCIE certification and (200-601) Managing Industrial Networks for Manufacturing with Cisco Technologies (MINS2)	<b>CCNA ROUTING &amp; SWITCHING</b>  Required exam: 200-120 CCNA or 100-101 ICND1, 200-101 ICND2 Recommended training: Interconnecting Cisco Networking Devices: Accelerated (CCNAX) or Interconnecting Cisco Networking Devices Part 1 (ICND1), Interconnecting Cisco Networking Devices Part 2 (ICND2) Prerequisites: No prerequisites	<b>CCNA SECURITY</b>  Required exam: 210-260 IINS Recommended training: Implementing Cisco Network Security (IINS) Prerequisites: A valid CCENT or a valid CCNA Routing and Switching or any CCIE certification can act as a prerequisite	<b>CCNA SERVICE PROVIDER</b>  Required exams: 640-875 SPNGN1, 640-878 SPNGN2 Recommended training: Building Cisco Service Provider Next-Generation Networks, Part 1 (SPNGN1), Building Cisco Service Provider Next-Generation Networks, Part 2 (SPNGN2) Prerequisites: No prerequisites	<b>CCNA WIRELESS</b>  Required exams: 200-355 WIFUND Recommended training: Implementing Cisco Wireless Network Fundamentals (WIFUND) Prerequisites: A valid CCENT or a valid CCNA Routing and Switching or any CCIE certification can act as a prerequisite
ENTRY	<b>CCENT</b> Required exam: 100-101 ICND Recommended training: Interconnecting Cisco Networking Devices Part 1 (ICND1) Prerequisites: No prerequisites										

# **CYBER SECURITY PROGRAMS**

Over 1,500  
Highly Qualified  
Certified Instructors

145+  
Countries

700+  
Locations

Over 4,200  
Classes Annually  
in Cyber Security



# Table of Contents

Who We Are	03
Security Wall	04
EC-Council at a Glance	05
Your Learning Options	06

## Tracks

Foundation Track	07
Vulnerability Assessment and Penetration Testing	08
Cyber Forensics	09
Network Defense and Operations	10
Software Security	11
Governance	12

## Certifications

Certified Secure Computer User (CSCU)	13
Certified Network Defender (CND)	14
Certified Ethical Hacker (CEH)	15
EC-Council Certified Security Analyst (ECSA)	16

EC-Council Certified Incident Handler (ECIH)	17
Computer Hacking and Forensic Investigator (CHFI)	18
EC-Council Certified Secure Programmer (ECSP) Java	19
EC-Council Certified Secure Programmer (ECSP) .Net	20
EC-Council Licensed Penetration Tester (LPT) <small>Master</small>	21
CAST 611 – Advanced Penetration Testing	22
CAST 612 – Advanced Mobile Forensics and Security	23
CAST 613 – Hacking and Hardening Corporate Web Apps	24
CAST 614 – Advanced Network Defense	25
CAST 616 – Securing Windows Infrastructure	26
EC-Council Disaster Recovery Professional (EDRP)	27
Certified Chief Information Security Officer (C CISO)	28

## Academic Programs

Bachelor of Science in Cyber Security (BSCS)	29
Graduate Certificate Programs	30
Master of Science in Cyber Security (MSS)	31

# Who We Are

The EC-Council group is made up of several entities that all help serve the same goal which is to create a better, safer cyber world through awareness and education. Our entities include International Council of eCommerce Consultants (EC-Council), iClass, EC-Council University, EC-Council Global Services (EGS), and EC-Council Conferences and Events.

EC-Council creates content (course materials and exams) and certification delivered through our channel of authorized training centers which consists of over 700 partners representing over 2,000 physical locations in more than 145 countries across the globe. We are the owner and developer of the world-famous E-Council Certified Ethical Hacker (CEH), EC-Council Computer Hacking Forensics Investigator (CHFI), EC-Council Certified Security Analyst (ECSA), and EC-Council License Penetration Tester (LPT Master programs.

Our certification programs are recognized worldwide and have received endorsements from various government agencies, including the United States Federal Government (via the Montgomery GI Bill), the National Security Agency (NSA), and the Committee on National Security Systems (CNSS). All these reputed organizations have certified EC-Council's Certified Ethical Hacking (CEH), EC-Council Network Security Administrator (ENSA), EC-Council Computer Hacking Forensics Investigator (CHFI), EC-Council Disaster Recovery Professional (EDRP), EC-Council Certified Security Analyst (ECSA) and EC-Council Licensed Penetration Tester (LPT Master programs for meeting the 4011, 4012, 4013A, 4014, 4015 and 4016 training

standards for information security professionals. EC-Council recently received accreditation from the American National Standards Institute (ANSI). We have so far certified over professionals in various e-business and cyber security skills.

iClass is EC-Council's direct certification training program. iClass delivers EC-Council certification courses through various training methodologies: instructor-led at client facilities, synchronous delivery through live, online instructor-led, and asynchronously through our streaming video platform. iClass course videos can also be loaded onto a mobile device, such as an iPad, and shipped to a client location.

"Our lives are dedicated to the mitigation and remediation of the cyber plague that is menacing the world today"

Jay Bavisi  
President & CEO  
EC-Council

EC-Council University is a DEAC accredited university offering programs such as Bachelor of

Science in Cyber Security, Master of Science in Cyber Security, and Graduate Certificate Program. EC-Council Global Services (EGS) is dedicated to helping organizations understand and manage their cyber-security risk posture effectively. EGS specializes in helping clients make informed business decisions to protect their organizations. EGS has over 20 dedicated cyber security practice areas informed by the best cyber security practitioners, each of whom have dedicated their lives to defending organizations from cyber-attacks.

EC-Council's Conference and Events Group is responsible for planning, organizing, and running conferences throughout the globe. TakeDownCon and Hacker Halted are IT security conferences that bring world renowned speakers together for keynotes, panels, debates, and breakout sessions. Conferences have been run in Dallas, Las Vegas, St. Louis, Huntsville, Maryland, Connecticut, Myrtle Beach, Miami, Atlanta, Iceland, Hong Kong, Egypt, Singapore, and Kuala Lumpur.

Other events include CISO Summits, Global CISO Forums, and Executive Cocktail Receptions where EC-Council brings speakers and content to executive level IT Security Professionals.

The Global Cyberlympics competition is a capture the flag type competition with approximately 1,000 global participants. EC-Council brings the hackers together online for preliminary elimination rounds and then brings the top two teams (6-8 players per team) from each region to compete in the final head-to-head competition.

## Pentagon trains workers to hack Defense computers

March 10, 2010 | By Larry Shaughnessy, CNN Pentagon Producer



The Pentagon is training people to hack into its own computer networks.

"To beat a hacker, you need to think like one," said Jay Bavisi, co-founder and president of the International Council of Electronic Commerce Consultants, or EC-Council. His company was chosen by the Pentagon to oversee training of Department of Defense employees who work in computer security-related jobs and certify them when the training is complete.

The Department of Defense does not consider this hacking.

"DoD personnel are not learning to hack. They are learning to defend the network against hackers," said spokesman Lt. Col. Eric Butterbaugh.



EC-Council Uni Aid is an EC-Council scholarship that provides information technology students at public universities globally access to EC-Council's industry-recognized information security education and certification and related technical disciplines.

Universities and student recipients will be part of a global community of scholarship recipients from the United States, Europe, Middle East, Africa and Asia-Pacific, all of whom share similar passion for information security and academic excellence.

EC-Council has pledged \$1,000,000 worth of information security scholarships for the 2011-2012 academic year to universities globally.

### EC-Council Featured in CNN | The Wolf Blitzer Show



Aug 4, 2011 | Albuquerque, NM - Jay Bavisi, president of EC-Council, was earlier interviewed by CNN, to comment on the massive cyber spying incident which targeted agencies and groups in 14 countries, including U.S. government agencies, the United Nations, defence contractors and Olympic bodies.

As reported by CNN McAfee said the attacks, which it calls Operation Shady RAT, have allowed hackers potentially to gain access to military and industrial secrets from 72 targets, most of them in the United States, over a five-year period.

EC-Council

"EC-Council - Trusted worldwide for its end-to-end enterprise cyber security solutions for human capital development"



# EC-Council at a Glance

EC-Council Group is a multidisciplinary institution of global Information Security professional services.



EC-Council Group is a dedicated Information Security organization that aims at creating knowledge, facilitating innovation, executing research, implementing development, and nurturing subject matter experts in order to provide their unique skills and niche expertise in cybersecurity.

Some of the finest organizations around the world such as the US Army, US Navy, DoD, the FBI, Microsoft, IBM, and the United Nations have trusted EC-Council to develop and advance their security infrastructure.

## ICECC

**International Council of E-Commerce  
Consultants**  
EC-Council Group

## ECC

**EC-Council Training & Certification**  
Division of Professional Workforce  
Development

## EGS

**EC-Council Global Services**  
Division of Corporate Consulting &  
Advisory Services

## ECCU

**EC-Council University**  
Division of Academic Education

## EGE

**EC-Council Global Events**  
Division of Conferences, Forums, Summits,  
Workshops & Industry Awards

## ECF

**EC-Council Foundation**  
Non-Profit Organization for Cyber Security  
Awareness Increase.

15+

YEARS  
EXPERIENCE

40+

TRAINING &  
CERTIFICATION  
PROGRAMS

145+

COUNTRIES

350+

SUBJECT MATTER  
EXPERTS

700+

TRAINING PARTNERS  
WORLDWIDE

3000+

TOOLS &  
TECHNOLOGIES

200,000+ CERTIFIED MEMBERS

# Your Learning Options



## Instructor-led Training

EC-Council has a large network of enterprise teams spread across 145 countries. Each center has a certified trainer to deliver the entire EC-Council program from a training facility in your city.



## Online Learning

iLearn online training is a distance learning program designed for those who cannot attend a live course. The program is for the people who have a very busy schedule and want to learn at their own pace through self-study. This modality is also available from our enterprise teams.



## Mobile Learning

Our world class content is also available on a mobile device, allowing our students to learn on the go. This program is designed for those who are cannot attend a live course, but are keen to improve their cyber security skills. This modality is also available from our enterprise teams.



## Computer-based Training

For people who work in secure facilities with limited or no access to the internet, we offer computer-based training (CBT) options delivered in an HD DVD format. The DVDs are an upgrade/add-on to the base iLearn program and are not sold independently. This modality is also available from our enterprise teams.



## Hands on Experience with the EC-Council Cyber Range (iLabs)

EC-Council iLabs allows students to dynamically access a host of virtual machines preconfigured with vulnerabilities, exploits, tools, and scripts from anywhere. Our simplistic web portal enables the student to launch an entire range of target machines and access them remotely with one simple click. It is the most cost-effective, easy to use, live range lab solution available. Most of our courses are equipped with iLabs, but iLabs can be purchased independently as well.



## Customized Learning

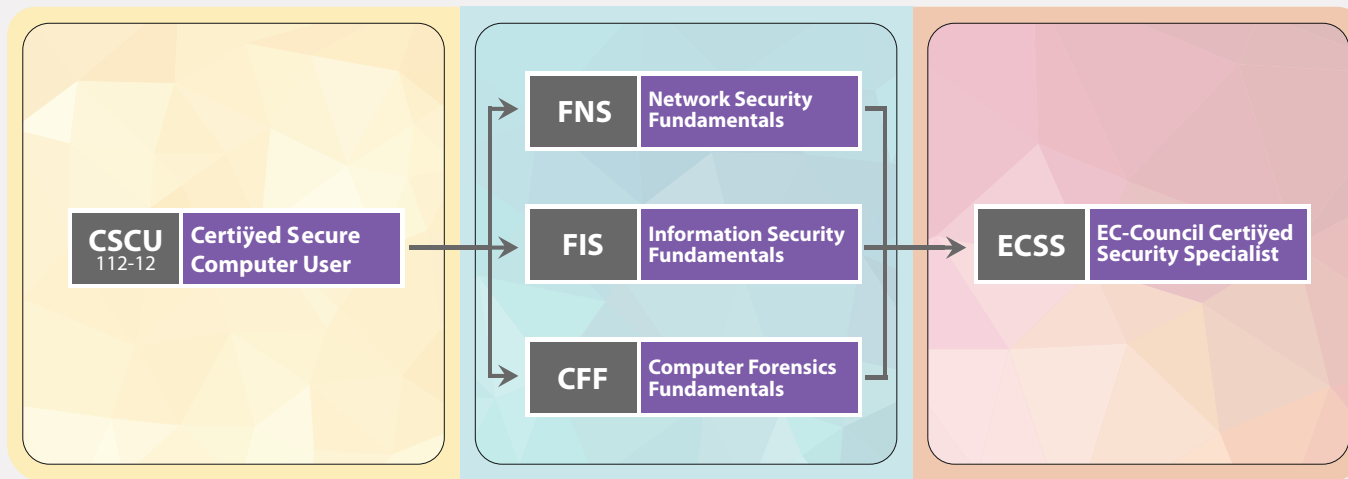
Love a course we offer, but want it customized? No problem! EC-Council has a dedicated team to cater to your needs. We have access to the largest pool of EC-Council certified instructors and enterprise teams. Let us know where and when you want the training delivered, and we will arrange for an instructor and all that's required for a course to be taught at a location of your choice. Contact our network of enterprise teams for a custom solution. EC-Council client-site training includes official courseware, certification exam (Prometric or VUE), iLabs, online labs (wherever available), and our test-pass guarantee.



## Live Online Training

If self-study or self-paced learning does not fit into your personal learning style, we offer you our live online model, iWeek. With iWeek, an instructor will teach you live online while you are seated in the comfort of your home. This training method gives you the freedom to get trained from a location of your choice. Individuals who choose this delivery method consistently attribute their choice to the preference of having a live instructor available for which questions can be asked and answered. We offer early-bird rates, group rates, and get even private courses delivered anytime.

# Foundation Track



Target

This course is specifically designed for today's computer users who use the internet extensively to work, study and play.

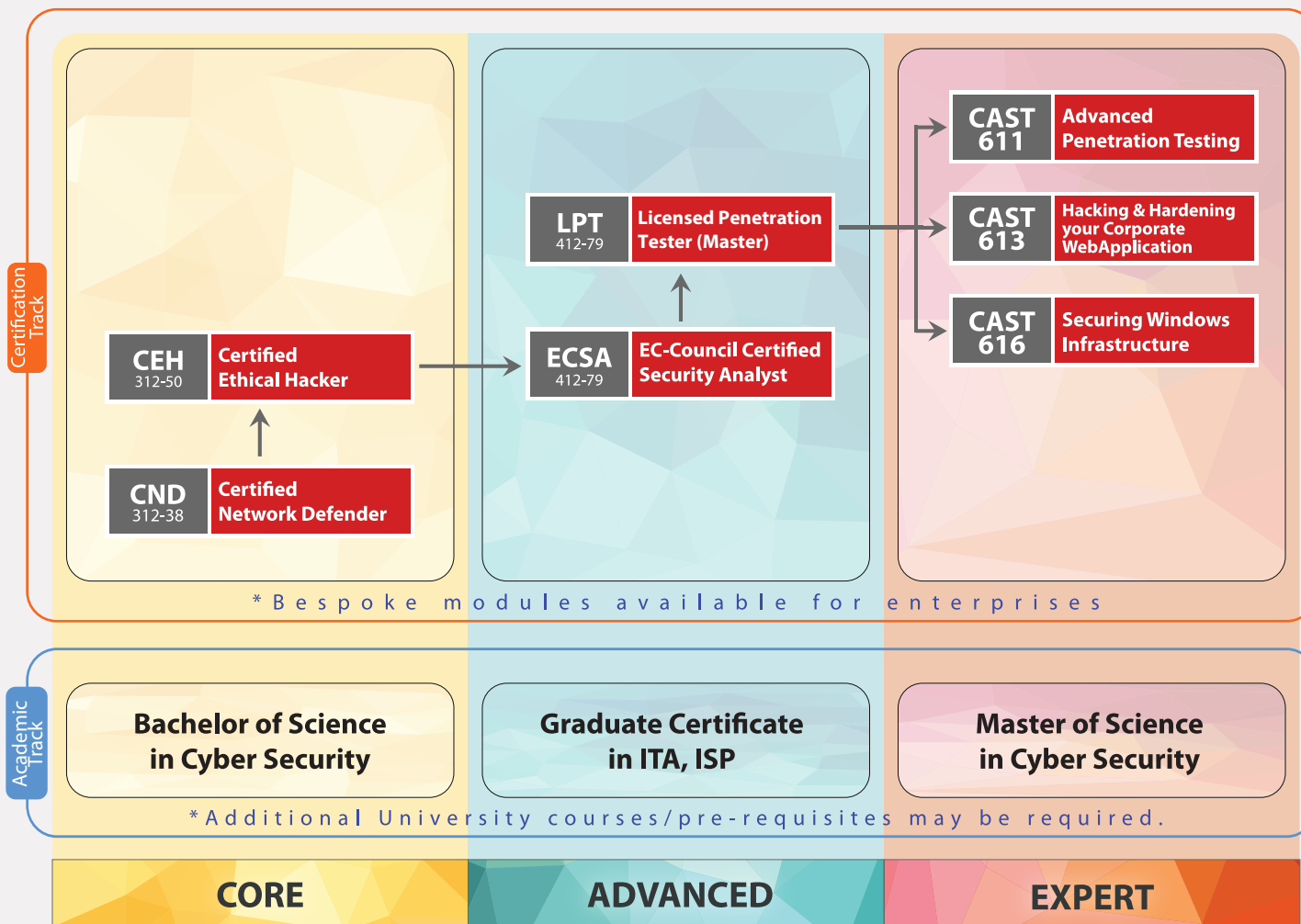
## What will You Learn



## Our Certified Foundation Professionals are Employed at:



# Vulnerability Assessment & Penetration Testing (VAPT)



## This Track Maps to NICE's Specialty Areas:

### 1. Protect and Defend (PR)

- a. Cybersecurity Defense Analysis (DA)
- b. Cybersecurity Defense Infrastructure

### Support (INF)

- c. Incident Response (IR)
- d. Vulnerability Assessment and Management (VA)

### 2. Securely Provision (SP)

- a. Test and Evaluation

### 3. Analyze (AN)

- a. Threat Analysis (TA)
- b. Exploitation Analysis (XA)

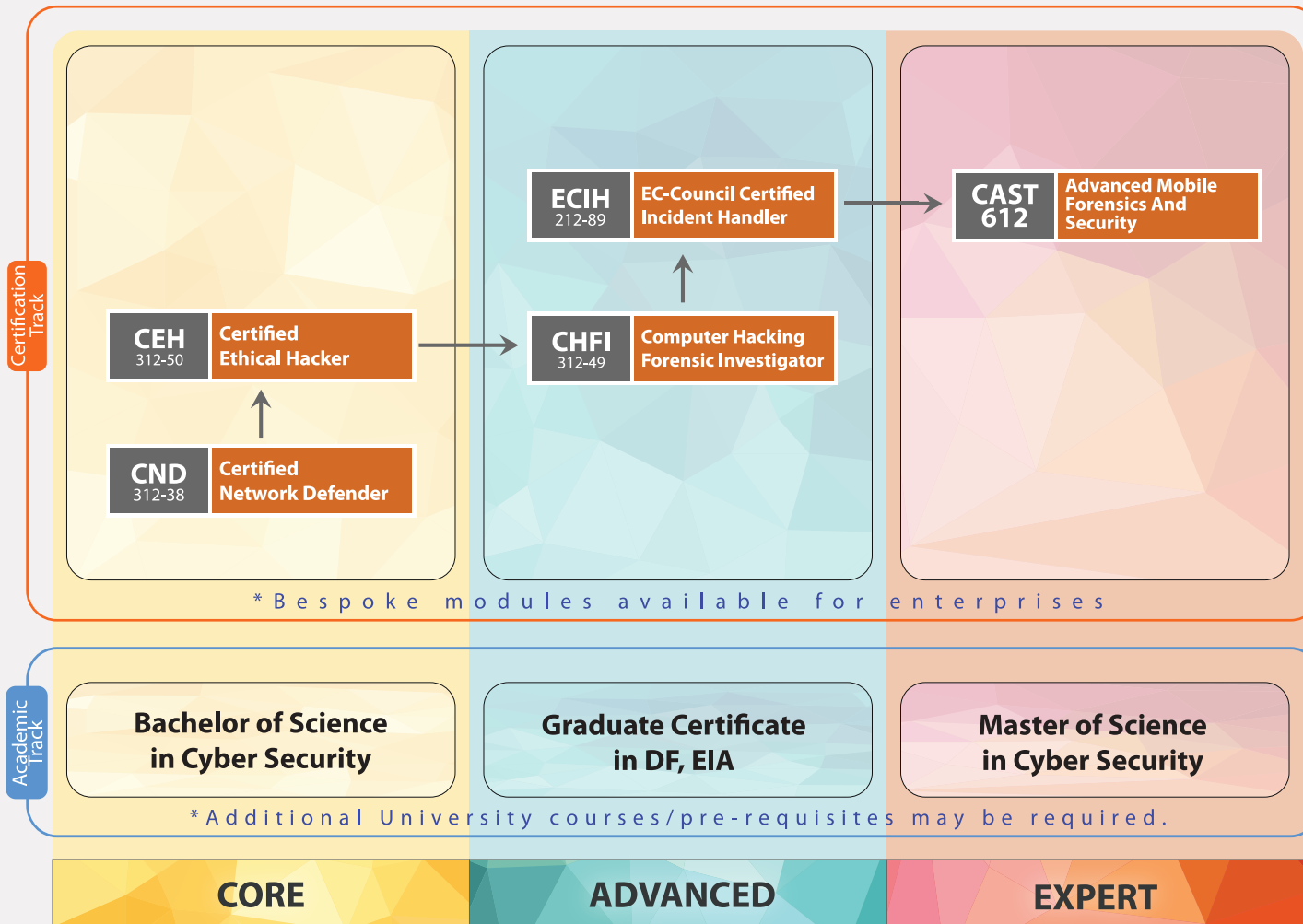
## Job Roles

- Information Assurance (IA) Security Officer
- Information Security Analyst/Administrator
- Information Security Manager/Specialist
- Information Systems Security Engineer/Manager
- Security Analyst
- Information Security Officers
- Information Security Auditors
- Risk/Vulnerability Analyst

## Our Certified VAPT Professionals are Employed at:



# Cyber Forensics



## This Track Maps to NICE's Specialty Areas:

- |  |   |   |  |
|--|---|---|--|
| <b>1. Securely Provision (SP)</b><br>a. Risk Management (RM)<br>b. Test and Evaluation             | c. Systems Analysis (AN)  | a. Cybersecurity Defense Analysis (DA)                | Assessment and Management (VA)   |
| <b>2. Operate and Maintain (OM)</b><br>a. Network Services (NET)<br>b. Systems Administration (SA) | <b>3. Oversee and Govern (OV)</b><br>a. Cybersecurity Management (MG) | b. Cybersecurity Defense Infrastructure Support (INF) | <b>5. Analyze (AN)</b><br>a. Threat Analysis (TA)<br>b. Exploitation Analysis (XA) |
|  | <b>4. Protect and Defend (PR)</b>                                     | c. Incident Response (IR)<br>d. Vulnerability         |  |

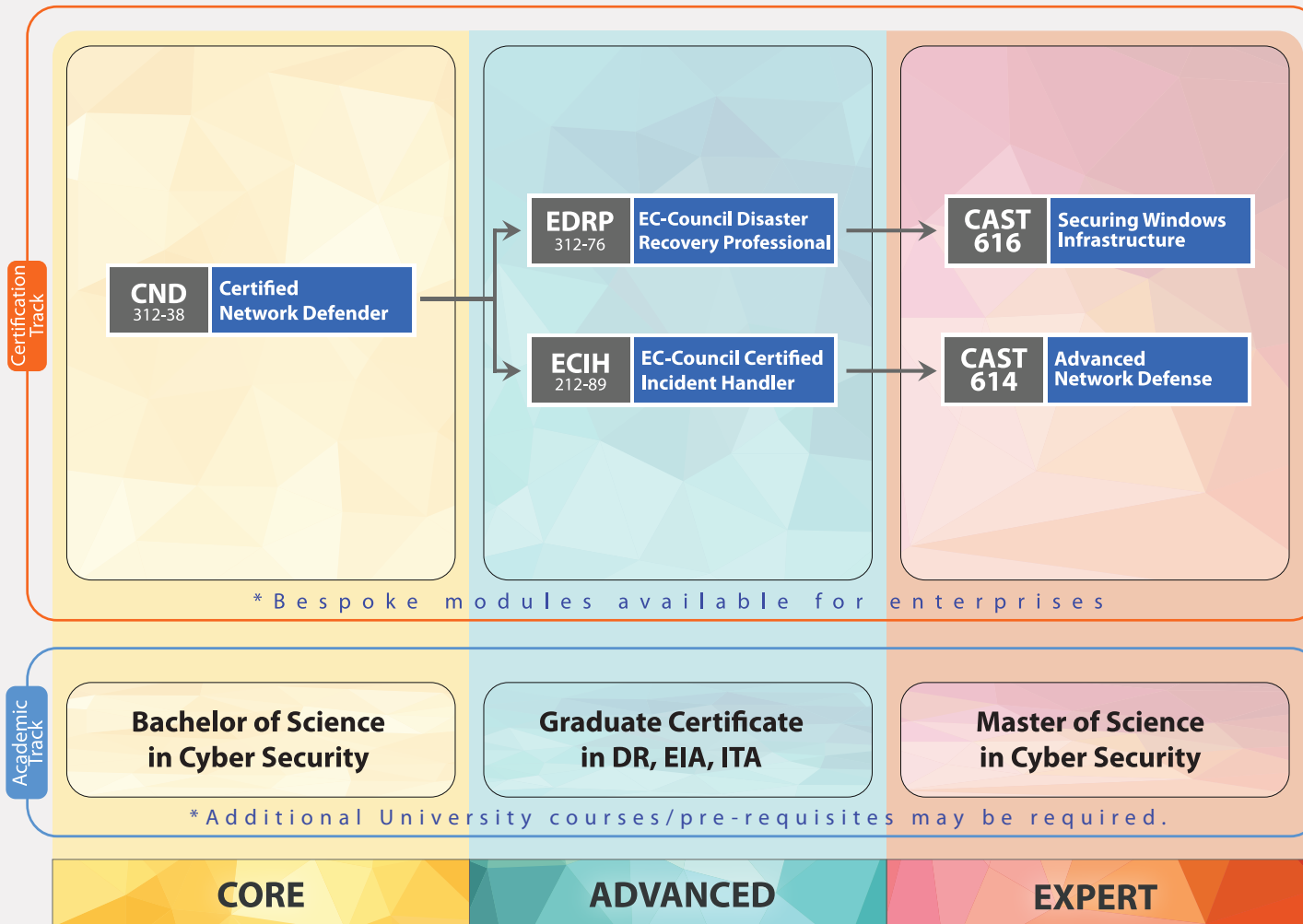
## Job Roles

- Computer Forensic Analyst
- Computer Network Defense (CND)
- Forensic Analyst
- Digital Forensic Examiner

## Our Certified Cyber Forensic Professionals are Employed at:



# Network Defense and Operations



## This Track Maps to NICE's Specialty Areas:

- 1. Securely Provision (SP)**
  - a. Risk Management (RM)
  - b. Test and Evaluation (TE)
- 2. Operate and Maintain (OM)**
  - a. Network Services (NET)
  - b. Systems Administration (SA)
  - c. Systems Analysis (AN)
- 3. Oversee and Govern (OV)**
  - a. Cybersecurity Management (MG)
- 4. Protect and Defend (PR)**
  - a. Cybersecurity Defense Analysis (DA)
  - b. Cybersecurity Defense
- 5. Analyze (AN)**
  - a. Threat Analysis (TA)
- Infrastructure Support (INF)
  - c. Incident Response (IR)
  - d. Vulnerability Assessment and Management (VA)

## Job

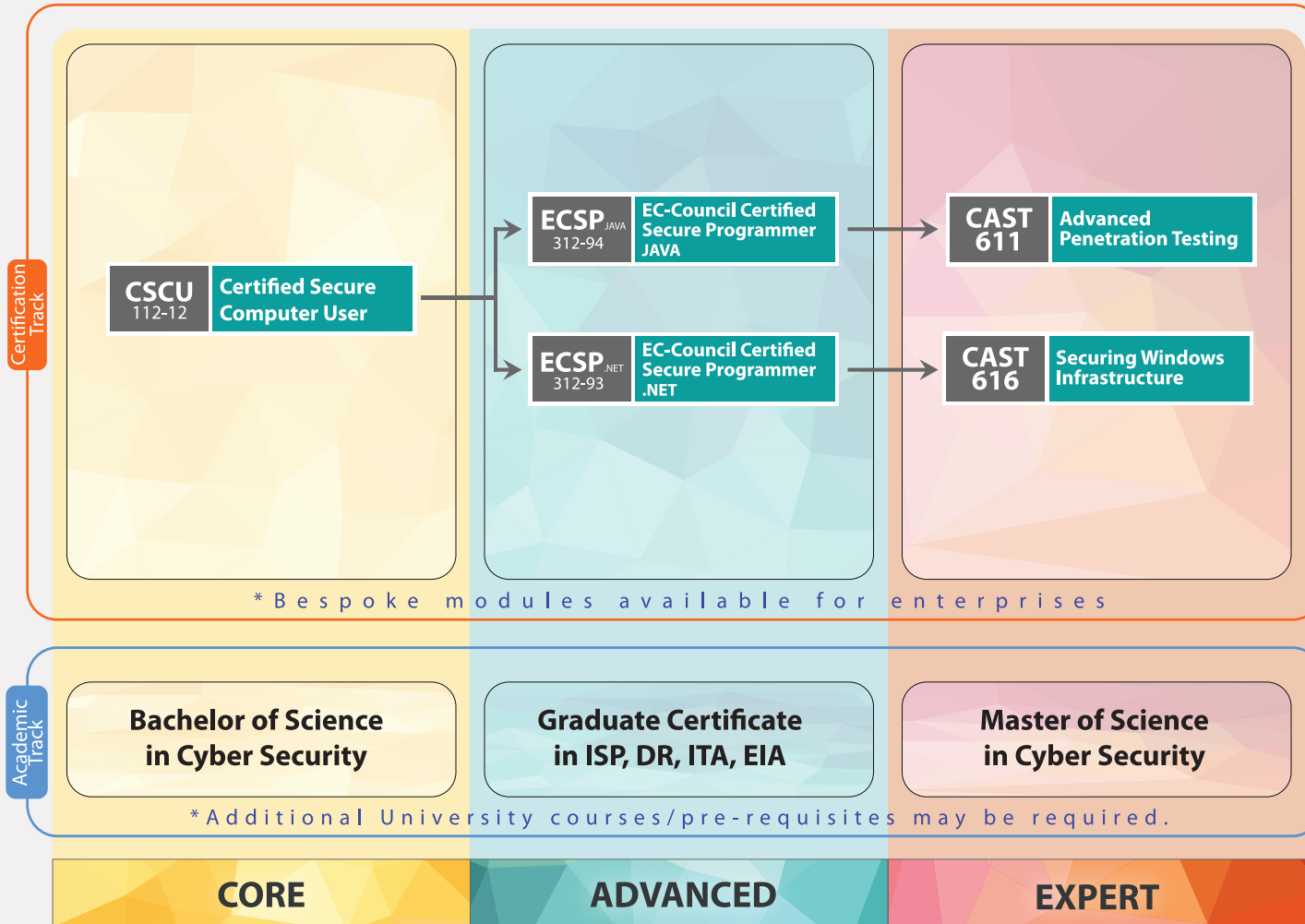
- Network Security Administrators
- Network Security Engineer/Specialist
- Network Defense Technicians
- Security Analyst
- Security Operator
- Computer Network Defense(CND) Analyst
- Cybersecurity Intelligence Analyst
- Enterprise Network Defense(END) Analyst

## Our Certified Network Defense Professionals are Employed at:





# Software Security



## This Track Maps to NICE's Specialty Areas:

- |   |  |   |   |
|---|--|---|---|
| <b>1. Securely Provision</b><br>a. Software Development (DEV)<br>b. Technology R&D (RD) | <b>2. Operate and Maintain (OM)</b><br>a. Data Administration (DA)<br>b. Systems Analysis (AN) | <b>3. Oversee and Govern (OV)</b><br>a. Cybersecurity Management (MG)<br><br><b>4. Protect and Defend (PR)</b><br>a. Cybersecurity Defense Analysis (DA)<br>b. Vulnerability Assessment and Management (VA) | <b>5. Analyze (AN)</b><br>a. Analyzes collected information to identify vulnerabilities and potential for exploitation. |
|---|--|---|---|

## Job Roles

- Secure Software Engineer
- Security Engineer
- Software Developer
- Software Engineer/Architect
- Systems Analyst
- Web Application Developer
- Application Security Tester

## Our Certified Software Security Professionals are Employed at:





# Governance



**Master of Science  
in Cyber Security**

**Graduate Certificate in:**

- Information Security Professional
- Information Analyst
- Information Technology Analyst
- Disaster Recovery
- Digital Forensics

## This Track Maps to NICE's Specialty Areas:

### 1. Securely Provision (SP)

- a. Risk Management (RM)
- b. Technology R&D (RD)
- c. Systems Requirements Planning (RP)

### 2. Oversee and Govern (OV)

- a. Legal Advice and Advocacy (LG)

- b. Training, Education, and Awareness (ED)

- c. Cybersecurity Management (MG)

- d. Strategic Planning and Policy (PL)

- e. Executive Cybersecurity Leadership (EX)

- f. Acquisition and Program/Project Management (PM)

### 3. Collect and Operate (CO)

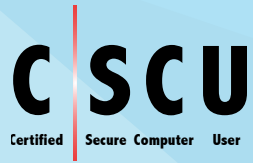
- a. Cyber Operational Planning (PL)

## Job Roles

- Chief Information Security Officer (CISO)
- Chief Security Officer (CSO)
- Information Security (IS) Director
- Information Assurance (IA) Program Manager

## Our Certified CCISO Professionals are Employed at:





# Certified Secure Computer User (CSCU)



## Course Description

**CSCU** provides individuals with the necessary knowledge and skills to protect their information assets.

This course covers fundamentals of various computer and network security threats such as identity theft, credit card fraud, phishing, virus and backdoors, emails hoaxes, loss of confidential information, hacking attacks, and social engineering.



## Key Outcomes

- Fundamentals of various computer and network security threats
- Understanding of identity theft, phishing scams, malware, social engineering, and financial frauds
- Learn to safeguard mobile, media and protect data
- Protecting computers, accounts, and social networking profiles as a user
- Understand security incidents and reporting



## Exam Information

- Exam name: CSCU (112-12) exam
- Number of questions: 50
- Passing score: 70%
- Test duration: 2 Hours
- Test format: Multiple choice
- Test delivery: EC-Council exam portal



## Course Outline

- Introduction to security
- Securing operating systems
- Malware and antivirus
- Internet security
- Security on social networking sites
- Securing email communications
- Securing mobile devices
- Securing the cloud
- Securing network connections
- Data backup and disaster recovery



# Certified Network Defender (CND)



## Course Description

**CND** is the world's most advanced network defense course that covers 14 of the most current network security domains any individuals will ever want to know when they are planning to protect, detect, and respond to the network attacks.

The course contains hands-on labs, based on major network security tools and to provide network administrators real world expertise on current network security technologies and operations.



## Course Outline

- Computer network and defense fundamentals
- Network security threats, vulnerabilities, and attacks
- Network security controls, protocols, and devices
- Network security policy design and implementation
- Physical security
- Host security
- Secure firewall configuration and management
- Secure IDS configuration and management
- Secure VPN configuration and management
- Wireless network defense
- Network traffic monitoring and analysis
- Network risk and vulnerability management
- Data backup and recovery
- Network incident response and management



## Key Outcomes

- Knowledge on how to protect, detect, and respond to network attacks
- Network defense fundamentals
- Application of network security controls, protocols, perimeter appliances, secure IDS, VPN, and firewall configuration
- Intricacies of network traffic signature, analysis, and vulnerability scanning



## Exam Information

- Exam title: CND
- Exam code: 312-38
- Number of questions: 100
- Duration: 4 hours
- Availability: ECC exam
- Test format: Interactive multiple choice questions



# Certified Ethical Hacker (CEH)



## Course Description

**CEH** is the world's most advanced certified ethical hacking course that covers 18 of the most current security domains any individual will ever want to know when they are planning to beef-up the information security posture of their organization.

The accredited course provides the advanced hacking tools and techniques used by hackers and information security professionals.



## Key Outcomes

- Thorough introduction to ethical hacking
- Exposure to threat vectors and counter measures
- Addresses emerging areas of cloud and mobile hacking
- Prepares you to combat Trojans, malware, backdoors and more
- Enables you to hack using mobile



## Exam Information

- Number of questions: 125
- Test duration: 4 Hours
- Test format: Multiple choice
- Test delivery: ECC exam, VUE
- Exam prefix: 312-50 (ECC exam), 312-50 (VUE)



## Course Outline

- Introduction to ethical hacking
- Foot printing and reconnaissance
- Scanning networks
- Enumeration
- Sniffing
- System hacking
- Malware threats
- Social engineering
- Denial of service
- Session hijacking
- Hacking web applications
- SQL injection
- Hacking wireless networks
- Hacking web servers
- Hacking mobile platforms
- Evading IDS, Firewalls, and Honeypot
- Cloud computing
- Cryptography



# EC-Council Certified Security Analyst (ECSCA)



## Course Description

ECSCA is a globally accepted hacking and penetration testing program that covers the testing of modern infrastructures, operating systems, and application environments while teaching the students how to document and write a penetration testing report.

This program takes the tools and techniques covered in CEH to next level by utilizing EC-Council's published penetration testing methodology.



## Course Outline

- Security analysis and penetration testing methodologies
- TCP IP packet analysis
- Pre-penetration testing steps
- Information gathering methodology
- Vulnerability analysis
- External network penetration testing methodology
- Internal network penetration testing methodology
- Firewall penetration testing methodology
- IDS penetration testing methodology
- Web application penetration testing methodology
- SQL penetration testing methodology
- Database penetration testing methodology
- Wireless network penetration testing methodology
- Mobile devices penetration testing methodology
- Cloud penetration testing methodology
- Report writing and post-test actions



## Key Outcomes

- Introduce to security analysis and penetration testing methodologies
- In-depth vulnerability analysis, network penetration testing from external and internal evading firewalls and ids
- Learn to own web applications and databases, and take over cloud services
- Analyze security of mobile devices and wireless networks
- Present findings in a structured actionable report



## Exam Information

### Exam:

- Test format: Multiple choice
- Number of Questions: 150
- Passing Score: 70%
- Test Duration: 4 Hours

### Penetration testing:

- Complete ECSCA Practical Cyber Range Challenges in thirty Days
- Submit report within thirty Days completion of challenges
- Passing Criteria: 70 / 100 (Max)



# EC-Council Certified Incident Handler (ECIH)



## Course Description

The ECIH program is designed to provide the fundamental skills to handle and respond to the computer security incidents in an information system. The course addresses various underlying principles and techniques for detecting and responding to current and emerging computer security threats.

The comprehensive training program will make students proficient in handling as well as responding to various security incidents such as network security incidents, malicious code incidents, and insider attack threats.



## Key Outcomes

- Principals, processes and techniques for detecting and responding to security threats/ breaches
- Liaison with legal and regulatory bodies
- Learn to handle incidents and conduct assessments
- Cover various incidents like malicious code, network attacks, and insider attacks



## Exam Information

- Credit towards certification: ECIH 212-89 exam
- Test format: Multiple choice
- Test delivery: ECC exam, VUE



## Course Outline

- Introduction to incident response and handling
- Risk assessment
- Incident response and handling steps
- CSIRT
- Handling network security incidents
- Handling malicious code incidents
- Handling insider threats
- Forensic analysis and incident response
- Incident reporting
- Incident recovery
- Security policies and laws



# Computer Hacking and Forensic Investigator (CHFI)



## Course Description

CHFI is a comprehensive course covering major forensic investigation scenarios, enabling students to acquire hands-on experience.

The program provides a strong baseline knowledge of key concepts and practices in the digital forensic domains relevant to today's organizations. Moreover, CHFI provides firm grasp on the domains of digital forensics.



## Key Outcomes

- Comprehensive forensics investigation process
- Forensics of file systems, operating systems, network and database, websites, and email systems
- Techniques for investigating on cloud, malware, and mobile
- Data acquisition and analysis as well as anti-forensic techniques
- Thorough understanding of chain of custody, forensic report, and presentation



## Exam Information

- Number of Questions: 150
- Passing Score: 70%
- Test Duration: 4 hours
- Test Format: Multiple choice
- Test Delivery: ECC exam portal



## Course Outline

- Computer forensics in today's world
- Computer forensics investigation process
- Understanding hard disks and file systems
- Defeating anti-forensics techniques
- Operating system forensics
- Network forensics
- Investigating web attacks
- Database forensics
- Cloud forensics
- Malware forensics
- Investigating email crimes
- Mobile forensics
- Forensics report writing and presentation
- Data Acquisition and Duplication





# EC-Council Certified Secure Programmer (ECSP) Java



## Course Description

The **ECSP Java** program is a comprehensive course that provides hands-on training covering Java security features, policies, strengths, and weaknesses. It helps developers understand how to write secure and robust Java applications, and provides advanced knowledge in various aspects of secure Java development that can effectively prevent hostile and buggy code.



## Key Outcomes

- Introduces Java security architecture and common security threats
- Secure software development lifecycle (SDLC)
- Common threats and mitigation approaches
- Detailed coverage of input validation, output encoding, authentication and authorization, and other secure coding practices
- Thorough understanding of Sandbox, JVM, Bytecode Verifier, Security Manager, and JSF (Java Security Framework)



## Exam Information

- Number of questions: 50
- Passing score: 70%
- Test duration: 2 Hours
- Test format: Multiple choice
- Test delivery: EC-Council exam center
- Exam prefix: 312-94



## Course Outline

- Java security principles and secure coding practices Java Security Platform, Sandbox, JVM, Class loading, Bytecode verifier, Security Manager, security policies, and Java Security Framework
- Secure SDLC, threat modelling, software security frameworks, and secure software architectures
- Best practices and standards and guidelines for secure file input/output and serialization
- Java input validation techniques, validation errors, and best practices
- Java exceptions, erroneous behaviors, and the best practices to handle or avoid them
- Secure authentication and authorization processes
- Java Authentication and Authorization Service (JAAS), its architecture, Pluggable Authentication Module (PAM) Framework, and access permissions through Java Security Model
- Secure Java concurrency and session management
- Core security coding practices of Java Cryptography that includes Encryption, Key Generator and implementation of Cipher Class,
- Digital signatures, secret keys, and key management
- Various Java application vulnerabilities



# EC-Council Certified Secure Programmer (ECSP) .Net



## Course Description

The **ECSP .Net** program covers identification of security flaws and implementation of security countermeasures throughout the software development lifecycle to improve the overall quality of products and applications. This course is purposefully built with a number of labs with three days of training, offering participants critical hands on time to fully grasp the new techniques and strategies in secure programming.



## Key Outcomes

- Introduces .Net security architecture and common security threats
- Secure software development lifecycle (SDLC)
- Common threats and mitigation approaches
- Detailed coverage of input validation, output encoding, authentication and authorization, and other secure coding practices



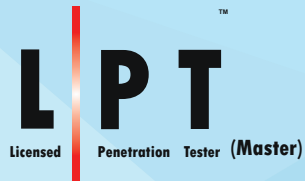
## Exam Information

- Number of questions: 50
- Passing score: 70%
- Test duration: 2 Hours
- Test format: Multiple choice
- Test delivery: EC-Council exam center
- Exam prefix: 312-93



## Course Outline

- .Net Application Security, ASP.Net Security Architecture common security threats to .Net framework
- Security attacks on .Net framework and Secure SDLC
- Common threats to .Net assemblies and stack walking processes
- Input validation
- Authorization and authentication processes and common threats
- Various security principles for session management
- Importance of cryptography in .Net, different types of cryptographic attacks in .Net
- Symmetric and asymmetric encryption, hashing concepts, digital certificates, digital and XML signatures
- Principles of secure error handling, different levels of exception handling, and various .Net logging tools
- File handling concepts



# EC-Council Licensed Penetration Tester (LPT) Master



## Course Description

The LPT (Master) credential is the World's first Online, Remotely Proctored Penetration Testing exam developed in close collaboration with SMEs and practitioners around the world after a thorough job role, job task, and skills-gap analysis.

The LPT (Master) practical exam is the capstone to EC-Council's entire information security track, right from the CEH to the ECSA Program. The LPT (Master) exam covers the entire Penetration Testing process and lifecycle with keen focus on report writing, required to be a true professional Penetration Tester.



## Key Outcomes

### LPT (Master) demonstrates:

- Mastery of Penetration Testing skills
- A consistent, repeatable and measurable approach to Penetration Testing
- Commitment to code of ethics
- Ability to present analysed results through professional reports



## Exam Information

- Exam duration : 18 hours (Three progressive level exams for six hour duration each)
- Passing Criteria: Achieve a minimum of 5 out of 9 challenges across 3 progressive levels
- Exam Format : Completely Hands-On
- Exam delivery : EC-Council remote proctoring service



## Testimonials



*"My overall experience was really good and taught me great skills. LPT (Master) is a must for every cyber security specialist and I guarantee it's worth a try"*

**Adithya Naresh**



*"A certification is always a nice thing to show to other parties, but when you have a credential like the LPT (Master), you can proudly say that this is just not another multiple-choice exam. It proves that you can actually do an end-to-end penetration test of world-class quality!"*

**Ali Isikli**



*"The LPT (Master) certification allows people like me to speak from a sense of authority. When presenting penetration testing results to clients you have a sense of security that what you are saying is accurate and real when you are backed up by a certification such as this."*

**Mark Horvat**



*"The LPT (Master) exam is a mind-opening exam, allowing a candidate to apply out-of-the-box solutions for cyber incidents, many of which we face with customers on a regular basis."*

**Moustafa Mohamed Mohsen**



## Course Description

The **CAST 611– Advanced Penetration Testing** is a specialized training program covering key information security domains, at an advanced level. Students completing this course will gain in-depth knowledge about information gathering, scanning, enumeration, exploitation and post exploitation, data analysis and reporting, and a number of advanced techniques.



## Key Outcomes

- Introduces a comprehensive process for a security test, producing findings and report for an enterprise class setting
- Complemented with Cyber Ranges that progresses in difficulty and reflect an enterprise level architecture, with defenses to defeat and challenges to overcome
- Exposure to evasion techniques



## Exam Information

- Based on practical results
- 60 questions
- 75 minutes
- Open book, note and access to range is allowed during the test
- 70% minimum required to pass



## Course Outline

- Information gathering and OSINT
- Scanning
- Enumeration
- Vulnerability analysis
- Exploitation
- Post exploitation
- Advanced techniques
- Data analysis and reporting



# CAST 612 – Advanced Mobile Forensics and Security



## Course Description

The **CAST 612 – Advanced Mobile Forensics and Security** focuses on what today's mobile forensics practitioner requires. Some of the advanced areas this course covers are the intricacies of manual acquisition (physical vs. logical) and advanced analysis using reverse engineering, understanding how the popular Mobile OSs are hardened to defend against common attacks and exploits.



## Key Outcomes

- Advanced concepts of forensic imaging of mobile devices, including logical, file, and storage system
- Data carving and analysis
- Bypassing pattern and password locks
- Reverse engineering of Apps and DB analysis



## Exam Information

- Onsite workshop



## Course Outline

- Mobile forensics challenges
- Mobile forensics process
- Mobile hardware design and architectures
- Mobile OS architecture, boot process, and file systems
- Mobile threats and security
- Mobile evidence acquisition and analysis
- Mobile application reverse engineering
- Mobile forensics reporting and expert testimony



# CAST 613 – Hacking and Hardening Corporate Web Apps



## Course Description

The **CAST 613 – Hacking and Hardening Corporate Web Apps** is a course designed with the average security unaware programmer in mind. The course is designed with more than 50% involving hands-on coding labs. The ideal participant should have a development background, coding, or architecting background either currently or previously.



## Key Outcomes

- Advanced techniques of hacking and hardening a Website/Web App
- Key concepts of cryptography, TLS, user account management, and session management
- Reducing the attack surface with disclosure controls as well as mitigation of XSS, SQLi, and CSRF, etc.



## Exam Information

- Exam Title: CAST 613 - Hacking and Hardening your Corporate Web Application
- Exam Code: CAST613
- Number of Questions: 50
- Duration: 2 hours
- Availability: EC-Council Exam Portal
- Passing Score: 70%



## Course Outline

- Cryptography decryption
- Account management
- Parameter diddling
- Transport layer protection
- Cross site scripting
- Cookies
- Internal implementation disclosure
- SQL injection
- Cross site attacks



# CAST 614 – Advanced Network Defense



## Course Description

The **CAST 614 – Advanced Network Defense** will enable you to evaluate advanced hacking methods of defense fortification, bringing you closer to establishing perfect security best practices and methodologies you can apply to secure environments. It will cover fundamental areas of fortifying your defenses by discovering methods of developing a secure baseline and hardening your enterprise architecture from the most advanced attacks.



## Key Outcomes

- Get introduced to concepts of advanced firewall controls and hardening of systems
- Understand intrusions, detection and prevention
- Defending web applications, end points, and critical infrastructure systems



## Exam Information

- Onsite workshop



## Course Outline

- Firewalls
- Advanced filtering
- Firewall configuration
- Hardening: establishing a secure baseline
- Intrusion detection and prevention
- Protecting web applications
- Memory analysis
- Endpoint protection
- Securing wireless





# CAST 616 – Securing Windows Infrastructure



## Course Description

The **CAST 616 – Securing Windows Infrastructure** focuses on the key aspects of Windows Infrastructure Security. It is designed with the single purpose of providing infosec professionals complete knowledge and practical skills necessary for ensuring the security of their network infrastructure, that is fast becoming, if already not, a top priority and a major challenge for most organizations.



## Key Outcomes

- Key aspects of Windows infrastructure security
- Architecture and its interconnected nature in an enterprise system
- Application of best practices to secure with a holistic framework



## Exam Information

- Three-day technical workshop



## Course Outline

- Windows 7 & 8 hardening
- Windows Server 2008 R2 / Windows Server 2012 hardening
- Hardening Microsoft network roles
- Windows high availability
- Data and application security
- Monitoring, troubleshooting and auditing Windows
- Automating Windows hardening
- Organizational security

# EC-Council Disaster Recovery Professional (EDRP)



## Course Description

The EDRP course identifies vulnerabilities and takes appropriate countermeasures to prevent and mitigate failure risks for an organization. It also provides the networking professional a foundation in disaster recovery course principles, including preparation of a disaster recovery plan, assessment of risks in the enterprise, development of policies and procedures, an understanding of the roles and relationships of various members of an organization, implementation of a plan, and recovering from a disaster.



## Key Outcomes

- Introduction to business continuity, risk management, and disaster recovery
- Disasters and emergency management, and applicable regulations
- DR planning process, preparation, recovery of systems and facilities
- Incident response and liaison with public services and regulatory bodies
- Exposure to various services from government and other entities



## Exam Information

- Number of questions: 50
- Test duration: 2 hours
- Test format: Multiple choice
- Test delivery: ECC exam portal



## Course Outline

- Introduction to disaster recovery and business continuity
- Nature and causes of disasters
- Emergency management
- Laws and acts
- Business continuity management
- Disaster recovery planning process
- Risk management
- Facility protection
- Data recovery
- System recovery
- Backup and recovery
- Centralized and decentralized system recovery
- Windows data recovery tools
- Linux, Mac and Novell Netware data recovery tools
- Incident response
- Role of public services in disaster
- Organizations providing services during disasters
- Organizations providing disaster recovery solutions
- Case studies



# Certified Chief Information Security Officer (C|CISO)



## Course Description

The C|CISO certification is an industry-leading program that recognizes the real-world experience necessary to succeed at the highest executive levels of information security. Bringing together all the components required for a C-Level positions, the C|CISO program combines audit management, governance, IS controls, human capital management, strategic program development, and the financial expertise vital for leading a highly successful IS program.

The C|CISO Training Program can be the key to a successful transition to the highest ranks of information security management.



## Course Outline

- Governance
- Security risk management, controls, and audit management
- Security program management and operations
- Information security core concepts
- Strategic planning, finance, and vendor management



## Key Outcomes

- Establishes the role of CISO and models for governance
- Core concepts of information security controls, risk management, and compliance
- Builds foundation for leadership through strategic planning, program management, and vendor management



## Exam Information

- Exam Format : Multiple Choice
- Total number of questions : 150
- Exam duration : 2.5 Hours
- Required passing score : 72%

# Bachelor of Science in Cyber Security (BSCS)



## Course Description

The **Bachelor of Science in Cyber Security (BSCS)** prepares students the knowledge for careers in cyber security and assurance. The program consists of topical areas dealing with computer security management, incident response, and security threat assessment, etc.



## Key Outcomes

- Knowledge and hands-on experience on various foundational cyber security concepts
- Some of the key topics include security management and incident response, security threat assessment and risk management, legal and regulatory issues and compliance
- Cyber defense and cyber warfare, implementation of security controls, and auditing
- Capstone Project



## Graduation Requirements

- Completion of 60 credit hours of 300/400 level courses in which the candidate earned a cumulative GPA of 2.5 or better
- Satisfactory completion of the summative capstone course
- All degree requirements must be completed within four years from the date the student enrolls in the University and begins the program



## Courses

- CIS 300 Fundamentals of information systems security
- CIS 301 Legal issues in cyber security
- CIS 302 Managing risk in information systems
- CIS 303 Security policies and implementation issues
- CIS 304 Auditing IT infrastructures for compliance
- CIS 308 Access control
- CIS 401 Security strategies in Windows platforms and applications
- CIS 402 Security strategies in Linux platforms and applications
- CIS 403 Network security, Firewalls, and VPNs
- CIS 404 Hacker techniques, tools, and incident handling
- CIS 405 Internet Security: How to defend against online attackers
- CIS 406 System forensics, investigation, and response
- CIS 407 Cyberwarfare
- CIS 408 Wireless and mobile device security
- CIS 410 Capstone course
- ENG 340 English communications
- MTH 350 Introduction to statistics
- PSY 360 Social psychology
- BIS 430 Ethics for the business professional
- ECN 440 Principles of microeconomics
- MGT 450 Introduction to project management

## Graduate Certificate Programs



### Course Description

EC-Council University's Graduate Certificate Program focuses on the competencies necessary for information assurance professionals to become managers, directors, and CIOs. Students will experience not only specialized technical training in a variety of IT security areas, but will also acquire an understanding of organizational structure and behavior, the skills to work within and across that organizational structure, and the ability to analyze and navigate its hierarchy successfully. Each certificate targets skills and understandings specific to particular roles in the IT security framework of an organization. The certificates can be taken singly or as a progressive set of five, each building on the one before it to move students from IT practitioner skill levels to IT executive skill levels.



### Key Outcomes

- Preparation for industry recognized certifications
- NSA program mappings
- Executive leadership development
- Masters level education
- Promoting critical thinking
- Ethical practice
- Scholarship and research



### Certificate Requirements

- Completion of mandated credit hours of courses in which the candidate earned a cumulative GPA of 2.5 or better
- All certificate requirements must be completed within **six months-one year** from the date the student enrolls in the university and begins the program



### Courses

- Information security professional
  - ECCU 500 Managing secure network systems
  - ECCU 501 Ethical hacking and Countermeasures
  - ECCU 505 Research and writing for the IT practitioner
- Digital forensics
- Disaster recovery
- Executive information assurance
- IT Analyst

# Master of Science in Cyber Security (MSS)



## Course Description

The **Master of Science in Cyber Security (MSS)** Program prepares information technology professionals for careers in cyber security and assurance. The program consists of topical areas dealing with computer security management, incident response, and cyber security threat assessment, which require students to be the creators of knowledge and inventors of cyber security processes, not merely users of information. Additionally, students will receive instruction in leadership and management in preparation for becoming cyber security leaders, managers, and directors.



## Key Outcomes

- Application of cyber security technical strategies, tools, and techniques to secure data and information for a customer or client
- Adherence to a high standard of cyber security ethical behavior
- Use of research in both established venues and innovative applications to expand the body of knowledge in cyber security
- Application of principles of critical thinking to creatively and systematically solve the problems and meet the challenges of the everchanging environments of cyber security
- Mastery of the skills necessary to move into cyber security leadership roles in companies, agencies, divisions, or departments



## Graduation Requirements

- Completion of thirty-six (36) credits of 500 level courses in which the candidate earned a cumulative GPA of 3.0 or better
- Satisfactory completion of the summative capstone course
- All degree requirements must be completed within four years from the date the student enrolls in the university and begins the program



## Courses

- ECCU 500 Managing secure network systems
- MGMT 502 Business essentials
- ECCU 501 Ethical hacking and countermeasures
- ECCU 502 Investigating network intrusions and computer forensics
- ECCU 503 Security analysis and vulnerability assessment
- ECCU 504 Foundations of organizational behavior for the IT practitioner
- ECCU 505 Introduction to research and writing for the IT practitioner
- ECCU 506 Conducting penetration and security tests
- ECCU 507 Linux networking and security
- ECCU 509 Securing wireless networks
- ECCU 510 Secure programming
- ECCU 511 Global business leadership
- ECCU 512 Beyond business continuity
- ECCU 513 Disaster recovery
- ECCU 514 Quantum leadership
- ECCU 515 Project management in IT security
- ECCU 516 The hacker mind: Profiling the IT criminal
- ECCU 517 Cyber law
- ECCU 518 Special topics
- ECCU 519 Capstone

