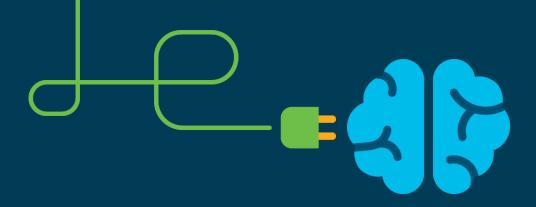
CISCO Academy



# CyberOps Associate 1.0

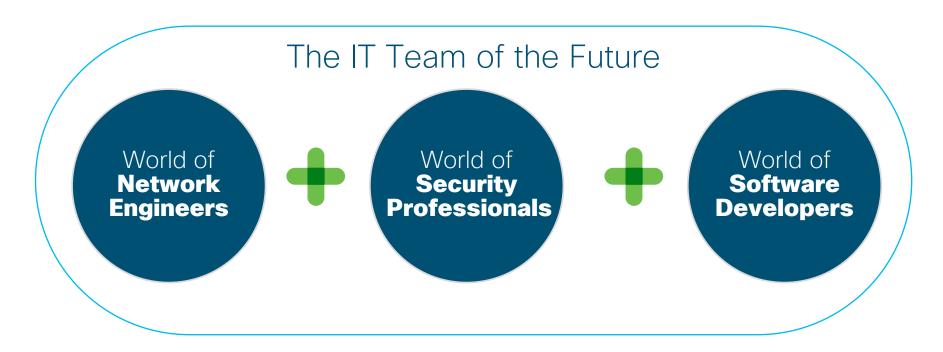
**Product Overview** 

July 2020 NetAcad.com



- Overview
- Upgrading to a better experience
- Lab Equipment
- Logistics and Timing
- Instructor Training

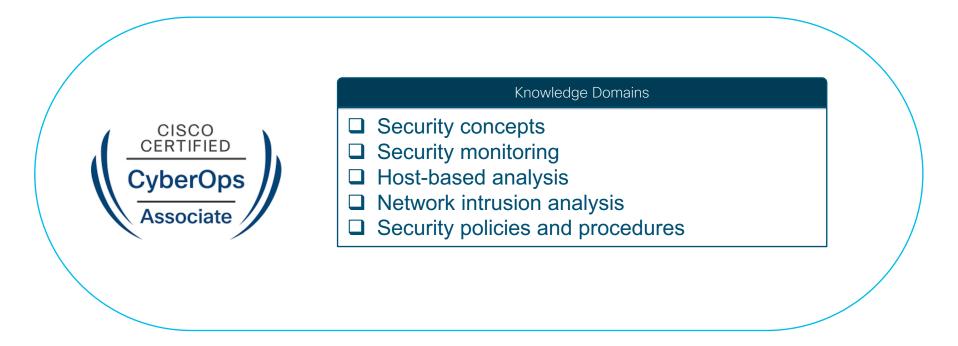
# Response to Digital Disruption



# CyberOps Associate 1.0 Course



# Cisco Certified CyberOps Associate Certification



# CyberOps Associate

#### **Course Overview**

This course introduces the core security concepts and skills needed to monitor, detect, analyze, and respond to cybercrime, cyberespionage, insider threats, advanced persistent threats, regulatory requirements, and other cybersecurity issues facing organizations.

#### **Benefits**

Gain practical, hands-on skills needed to maintain and ensure security operational readiness of secure networked systems.

#### **Prepare for Careers**

- ✓ Develop skills for entry-level security operations center (SOC) jobs
- ✓ Prepare for CyberOps Associate certification
- Pursue a career in cybersecurity operations, a rapidly-growing, exciting new area that spans all industries

#### **Course Details**

Target Audience: Students enrolled in technology degree programs at higher education institutions; IT professionals who wants to pursue a career in Security Operations

Estimated Time to Completion: 70 hours

**Recommended Preparation:** Introduction to Cybersecurity, Cybersecurity Essentials

Course Delivery: Instructor-led

#### Learning Component Highlights:

- ✓ 28 Modules and 46+ hands-on labs
- ✓ 113 interactive activities, videos, & quizzes
- ✓ 6 Cisco Packet Tracer activities
- 1 practice certification exam

Course Recognitions: Certificate of Completion, Letter of Merit, Digital Badge

Recommended Next Course: CCNA Security, IoT Security



#### Requirements & Resources

- ASC Alignment Required: Yes
- Instructor Training Required: Yes
- Physical Equipment Required: No (Uses Virtual Machines on the student's computer)
- Voucher Availability: Yes



# CyberOps Associate: Upgrading to a better experience

Enhanced Course Design



Aligned to Industry-Recognized Certification

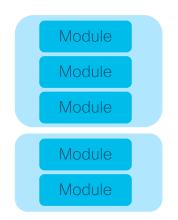


Improved Outcomes





### **Enhanced Course Design**



#### **Modular Design**

- ✓ Self-contained units
- ✓ Targeted learning of skills



#### **Learning Effectiveness**

- ✓ Better student engagement
- ✓ Designed for skills progression



12.5.7

#### Step 4 - Verify Default Gateway

If there is no detailed route on the router or if the host is configured with the wrong of between two endpoints in different networks does not work.

The figure illustrates how PC1 uses R1 as its default gateway. Similarly, R1 uses R2: resort. If a host needs access to resources beyond the local network, the default gal gateway is the first router on the path to destinations beyond the local network.

#### **User Experience**

- ✓ Improved student view and navigation
- ✓ Easier instructor content management



### **Enhanced Course Design**

#### Introducing modules for better organization

- ✓ Topics are grouped together
- ✓ Find content more easily

A **module** is an integrated unit of learning that targets a common set of competencies or skills.

Module size depends on the competency and number of topics.





### **Enhanced Course Design**

#### **Accessibility Enhancements**



# Redesigned User Interface

- ✓ Developed for Web Content Accessibility Guidelines 2.1
- ✓ New sidebar navigation
- ✓ Mobile-friendly
- ✓ Performance enhancements
- ✓ Improved color contrast



# **Enhancements for Screen Readers**

- Media descriptions and transcripts throughout
- ✓ Descriptions & transcripts tied directly to user interface
- ✓ Conversion to HTML- screen reader can read tables, command windows, Syntax Checkers



# Better Keyboard Accessibility

- ✓ 'Skip to Content' sidebar navigation
- ✓ All activities are now keyboard accessible
- New, accessible header with all user functions



# Aligned to Industry-Recognized Certification

### Certification Alignment

**Associate** Level



One Exam

- NetAcad curriculum aligns to the latest Cisco certifications, for students to prepare for the Cisco Certified CyberOps Associate certification exam.
- In CyberOps Associate, students gain critical security operations center (SOC) skills.
- The CyberOps Associate course includes practice exams, labs, and activities to prepare learners for the new exam.



# Build Critical Skills for Today - and Tomorrow

#### **Module Objectives**

Module				
Module 1	The Danger			
Module 2	Fighters in the War Against Cybercrime			
Module 3	The Windows Operating System			
Module 4	Linux Overview			
Module 5	Network Protocols			
Module 6	Ethernet and Internet Protocol (IP)			
Module 7	Principles of Network Security			
Module 8	Address Resolution Protocol			
Module 9	The Transport Layer			
Module 10	Network Services			
Module 11	Network Communication Devices			
Module 12	Network Security Infrastructure			
Module 13	Attackers and Their Tools			
Module 14	Common Threats and Attacks			

Module			
Module 15	Observing Network Operation		
Module 16	Attacking the Foundation		
Module 17	Attacking What We Do		
Module 18	Understanding Defense		
Module 19	Access Control		
Module 20	Threat Intelligence		
Module 21	Public Key Cryptography		
Module 22	Endpoint Protection		
Module 23	Endpoint Vulnerability Assessment		
Module 24	Technologies and Protocols		
Module 25	Network Security Data		
Module 26	Evaluating Alerts		
Module 27	Working with Network Security Data		
Module 28	Digital Forensics and Incident Analysis and Response		



# Improved Outcomes

# **Check Your Understanding**

- Complete a topic with self-assessment
- Gives students the opportunity validate and retain critical knowledge
- Use feedback as review

Check Your Understanding - Identify the SOC			
Terminology			
Check your understanding of SOC roles by answering the following questions.			
Which SOC job role manages all the resources of the SOC and serves as a point of contact for the larger organization or customer?			
SME/Threat Hunter			
○ SOC Manager			
Cybersecurity Analyst			
☐ Incident Responder			
2. Which SOC job role processes security alerts and forwards tickets to Tier 2 if necessary?			
SME/Threat Hunter			
SOC Manager			
Cybersecurity Analyst			
☐ Incident Responder			



#### Unique exams to each of your students via Dynamic Forms

- Exams are dynamically generated from pool of questions, maintaining exam integrity and validity
- Available for Module Group exams and Final course exam
- Form and Section Details indicate total items available and selected from the pool for students.
- Module Group exam items, delivered or not, are available for preview with the assessment viewer



# Secured Activation increases final exam security and provides useful insights on class performance

#### New Assessment Launcher

- Final exams remain secure until administered by instructor
- Replaces the Assessment Viewer
- For security & integrity, questions are not visible

#### Domain Level Reporting

- New Class Performance Summary report for instructors
- Replaces the Student Performance Summary
- See how your students are performing in each domain based on objectives of the modules and course



#### Formative and Summative Assessments guide learning at strategic points

#### Self-Assessments

#### Check Your Understanding

- ✓ Multiple per module
- ✓ Correct/incorrect scoring and 'show me' option

#### Module Quizzes

- ✓ 1 per module
- ✓ Correct/incorrect scoring and 'show me' option

#### Launched by Instructor

#### Module Group Exams

✓ Multiple per course

#### Final Exams

✓ 1 per course

#### Certification Practice Exams

✓ 1 per course

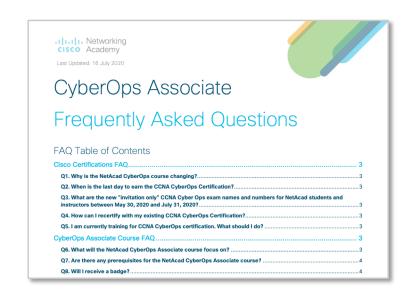
# Logistics & Timing





## CyberOps Associate Course Resources

- Scope and Sequence
- FAQ
- VM FAQ
- CBROPS Certification Mapping
- Release Notes
- Instructor Planning Guides
- Instructor Lab Source Files
- Instructor Packet Tracer Source Files
- Exam Design Documents
- Student/Instructor OVA for CyberSkill Challenge
- Student /Instructor Packet Tracer Activity Source Files
- Student Lab Source File
- · And more...



#### **Access Course Resource Pages through NetAcad.com**

https://www.netacad.com/portal/resources/course-resources/cyberops-associate

# CCNA CyberOps End of Life

Course	Language *	Last Class Start Date
	English	July 31st, 2021
CCNA CyberOps	languages will each language is a minimum of language co	dates for translated be announced when released. Dates will be year after respective urse resources are vailable.

# Lab Equipment



### CyberOps Labs - Designed for Remote Instruction

- No Hardware needed Perfect for remote instruction
- Emulate career skills on 100% virtual labs.



#### **Options**

- Run Virtual Machines (VM) locally
- Netlab+ as a Service

Each module contains some way to practice and assess with a lab or Packet Tracer



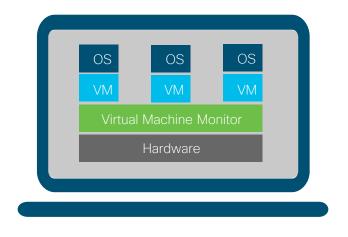
# **Equipment Requirements**





# **Equipment Requirements**

Virtual Machine	Disk Space	RAM
CyberOps Workstation VM	7 GB	1 GB
Security Onion VM (ELK tool)	20 GB	4 GB Min /8GB Recommended



Lab Setup

# **Instructor Training**

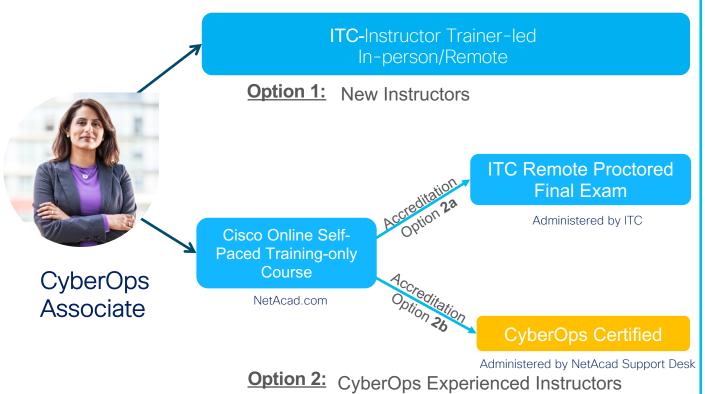


# CyberOps Associate Instructor Training Model

# **Guiding Principles**

- Protecting and differentiating our partner ecosystem
- Suitable for In-person & Remote Training
- Accelerate Instructor Onboarding
- Provide Incentive for self starters who are CyberOps certified

# CyberOps Associate Instructor Training



#### Highlights

#### Opportunity to obtain:

- Accreditation to Teach
- Certificate of Course Completion
- ✓ Letter of Merit
- ✓ Learning Badge
- ✓ Certification Voucher

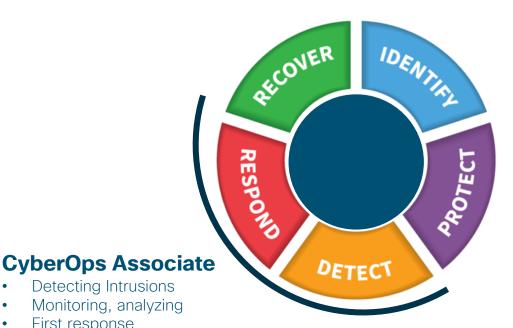
#### Opportunity to obtain:

- Accreditation to Teach
- Certificate of Course Completion
- Letter of Merit
- √ Learning Badge

#### Opportunity to obtain:

✓ Accreditation to Teach

## CyberOps Associate prepares students for Jobs



First response

Alignment with National Institute of Standards and Technology (NIST) Cybersecurity Framework

#### **Typical Associate Positions**

- SOC Analyst
- Incident Responder
- Digital Forensics
- Auditor

