
Enhancing Cisco Security Solutions with Splunk (ECSS)

***WHERE GREAT TRAINING
HAPPENS EVERYDAY!***

Enhancing Cisco Security Solutions with Splunk (ECSS)

Course Duration

5 days

Course Price

\$4,595.00
44 CLCs

Methods of Delivery

In-Person ILT
Virtual ILT
Onsite ILT

About this Class

In this Enhancing Cisco Security Solutions with Data Analytics course provides a comprehensive introduction to Splunk Enterprise and Splunk Cloud, with a strong focus on integrating Cisco security technologies for centralized monitoring, analytics, and incident response. The curriculum begins by establishing foundational Splunk concepts, including core components, data ingestion methods, the Splunk Search Processing Language, and the creation of dashboards and reports. Learners gain hands-on experience exploring Splunk interfaces, validating data ingestion, and performing effective searches to transform raw security data into actionable intelligence.

The course then expands into security operations, introducing XDR, SIEM, and SOAR concepts and demonstrating how Cisco XDR, Splunk SIEM, and Splunk SOAR work together within the Cisco Security Cloud. Students explore integrations with Cisco Secure Firewall, Cisco Secure Malware Analytics, Duo, Secure Network Analytics, Email Threat Defense, Multicloud Defense, Cisco ISE, and Network Visibility Module, learning how security telemetry from across the enterprise is correlated within Splunk. Both modern Cisco Security Cloud applications and legacy Splunk apps and technology add-ons are examined to provide a complete understanding of integration options and use cases.

Operational skills are reinforced through extensive labs focused on malware and ransomware investigation, incident analysis, dashboard creation, and end-to-end troubleshooting. Students learn how to diagnose data ingestion issues, resolve integration problems with Cisco security platforms, and investigate real-world security incidents using Splunk Enterprise, Cisco XDR, and Splunk SOAR workflows. By the end of the course, learners are equipped to deploy, integrate, analyze, and troubleshoot Splunk-based security monitoring solutions in complex enterprise environments.

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How you will benefit

This class will help you:

- Aggregate data from all Cisco security products into a single Splunk instance for centralized visibility
- Monitor your security environment in real time to detect and respond to threats faster
- Streamline security workflows by reducing dashboard switching and manual data correlation
- Enhance decision-making with customizable dashboards and comprehensive, accurate insights
- Protect your organization more effectively by integrating Cisco security solutions with Splunk for unified threat detection and response
- Earn 32 CE credits toward recertification

Why Attend with Current Technologies CLC

- Our Instructors are the top 10% rated by Cisco
- Our Lab has a dedicated 1 Gig Fiber Connection for our Labs
- Our Labs run up to Date Code for all our courses

Who Should Attend

The job roles best suited to the material in this course are:

- System Engineers
- SOC Engineers

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Objectives

After taking this course, you should be able to:

- Explain the Splunk Enterprise/Cloud fundamentals
- Explain the use of SIEM, SOAR as part of the modern SOC architecture to enhance the SOC's ability to detect, investigate, and respond to security threats effectively
- Implement Cisco Security Solutions to Splunk Integration using the Cisco Security Cloud App
- Implement Cisco Security Solutions to Splunk Integration using Cisco Legacy Apps and TAs
- Illustrate the value of integrating Cisco security solutions with Splunk using real-world use cases
- Troubleshoot the Cisco Security Cloud App and the Cisco Apps and TAs

Prerequisites

To fully benefit from this course, you should have the following knowledge:

- Cisco CCNP Security or equivalent knowledge

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Course Outline

- Module 1: Overview of Splunk Enterprise and Splunk Cloud
- Module 2: Splunk Enterprise and Splunk Cloud Components
- Module 3: Splunk Enterprise Data Ingestion
- Module 4: Splunk Search Programming Language
- Module 5: Splunk Dashboards and Reports
- Module 6: XDR, SIEM, and SOAR Platforms
- Module 7: Cisco XDR, Splunk SIEM, and Splunk SOAR
- Module 8: Cisco Security Cloud App
- Module 9: Cisco Secure Firewall Integration
- Module 10: Cisco Splunk Enterprise Integration
- Module 11: Cisco Secure Malware Analytics, Duo, Secure Network Analytics, Email Threat Defense, and Multicloud Defense Integrations
- Module 12: Cisco Security Legacy Apps and Technology Add-Ons
- Module 13: Cisco ISE Integration
- Module 14: Cisco NVM Integration
- Module 15: Cisco Security Solutions and Splunk Use Case
- Module 16: Cisco Splunk Use Case
- Module 17: Troubleshoot General Splunk Issues
- Module 18: Troubleshoot Cisco Security Cloud App
- Module 19: Troubleshoot Cisco Legacy Apps and Add-ons

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Lab Outline

- Lab 1: Explore Splunk Indexes
- Lab 2: Explore Splunk Web and CLI
- Lab 3: Verify and Test Data Ingestion
- Lab 4: Malware Events Analysis Using Splunk Enterprise Simulation
- Lab 5: Perform Search Queries
- Lab 6: Create Dashboards and Reports
- Lab 7: Explore Splunk SOAR
- Lab 8: Explore Cisco XDR Incident Investigation
- Lab 9: Cisco Secure Firewall Integration with Splunk
- Lab 10: Cisco XDR to Splunk Enterprise Integration Simulation
- Lab 11: Cisco Duo Integration Simulation
- Lab 12: Cisco SMA Integration Simulation
- Lab 13: Cisco SNA Integration Simulation
- Lab 14: Explore the Cisco ISE Integration with Splunk Using the Legacy ISE App and TA
- Lab 15: Explore the Cisco NVM Integration with Splunk Using the Legacy CESA App and TA
- Lab 16: Investigate Ransomware Using Splunk Enterprise with the Various Cisco Security Apps
- Lab 17: Troubleshoot Cisco Security Cloud App with Cisco Secure Firewall Integration
- Lab 18: Troubleshooting Cisco ISE Integration with Splunk
- Lab 19: Troubleshooting Cisco NVM Integration with Splunk