

## COURSE OVERVIEW:

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NterOne's Splunk training covers how together, Splunk and UCS enable organizations to realize the potential of Operational Intelligence across the organization and gain real-time business insights that create a strategic advantage. The Splunk for Cisco Integrated Infrastructure training will cover how Splunk software scales to collect and index hundreds of terabytes of data per day, across multi-geography, multi-datacenter and cloud based infrastructures. Using Cisco's Unified Computing System (UCS) Integrated Infrastructure for Big Data offers linear scalability along with operational simplification for single-rack and multiple-rack deployments. To facilitate faster and more predictable deployments, Cisco has published multiple reference architectures for Splunk software plus a comprehensive Cisco Validated Design that provides prescriptive, step-by-step guidance for deploying Splunk Enterprise on Cisco UCS. Lastly, the Cisco Splunk course will cover Splunk Apps and Add-Ons that provide ready-to-use functions for many Cisco Products and platforms.

## WHO SHOULD ATTEND:

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The primary audience for this course is as follows:

- System Engineers
- System Administrators
- Architects
- Channel Partners
- Data Analysts

## PREREQUISITES:

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It is recommended that students have the following knowledge and skills prior to attending this course:

- Familiarity with Cisco products



## COURSE OBJECTIVES:

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Upon successful completion of this course, students should be able to meet these overall objectives:

- Describe how harnessing the power of your machine data enables you to make decisions based on facts, not intuition or best guesses.
- Reduce the time you spend investigating incidents by up to 90%.
- Find and fix problems faster by learning new technical skills for real world scenarios.
- Get started with Splunk Enterprise, from installation and data onboarding to running search queries to creating simple reports and dashboards.
- Accelerate time to value with turnkey Splunk integrations for dozens of Cisco products and platforms.
- Ensure faster, more predictable Splunk deployments with a proven Cisco Validated Design and the latest Cisco UCS server.

## COURSE OUTLINE:

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### Module 1: Cisco Integrated Infrastructure for Big Data and Splunk

- Lesson 1: What is Cisco CPA?
- Lesson 2: Architecture benefits for Splunk
  - High Performance unified fabric connecting Splunk nodes and clusters
  - Rapid and easy deployment of Splunk clustered servers with Service profiles
  - Simplified management of large Splunk deployment
  - Integration of Splunk and Enterprise applications in single management/connectivity domain
  - Architectural Scalability
  - Reduced Capex/Opex up to 50% compared to traditional servers
  - Enterprise Service and Support through Cisco/Intel collaboration
- Lesson 3: Components of IIBD and relationship to Splunk Architecture
  - Cisco UCS C240 M4 Rack Servers
  - Cisco Nexus 2200/2300 Series Fabric Extenders
  - Cisco Nexus 6200/6400 Series Fabric Interconnects
  - Smart Play configurations
- Lesson 4: Cisco UCS Integrated Infrastructure for Big Data with Splunk Enterprise
- Lesson 5: Splunk- Big Data Analytics:

# Splunk for Cisco Integrated Infrastructure (SPLUNK) 1.0

- CVD: Cisco UCS Integrated Infrastructure for Big Data with Splunk Enterprise
- Solution Brief: Cisco UCS Integrated Infrastructure for Big Data with Splunk Enterprise
- Lab: Attendees run Queries on Splunk, Capacity Planning on Splunk
- Lesson 6: Solution Overview
  - Rack Configuration
  - Port Configuration on Fabric Interconnects
  - Configuration and Cabling for C240 M4 Rack Servers
  - Configuration and Cabling for C240 M4 Rack Server
  - Configuration and Cabling for S3260 Rack Server
- Lesson 7: NFS Configurations for the Splunk Frozen Data Storage
- Lesson 8: NFS Client Configurations on the Indexers

## Module 2: Splunk- Start Searching

- Lesson 1: Chargeback
- Lesson 2: Reporting
- Lesson 3: Building custom reports using the report builder

## Module 3: Application Containers

- Lesson 1: Understanding Application Containers

## Module 4: Understanding Advanced Tasks

- Lesson 1: Task Library & Inputs
- Lesson 2: CLI & SSH Task
- Lesson 3: Understanding Compound Tasks
- Lesson 4: Custom Tasks

## Module 5: Open Automation Troubleshooting

- Lesson 1: UCS Director Restart
- Lesson 2: Module Loading
- Lesson 3: Report Errors
- Lesson 4: Feature Loading
- Lesson 5: Report Registration

## Module 6: REST API- Automation

- Lesson 1: UCS Director Developer Tools
- Lesson 2: Accessing REST using a REST client
- Lesson 3: Accessing REST using the REST API browser

## Module 7: Open Automation SDK

- Lesson 1: Overview
- Lesson 2: Open Automation vs. Custom Tasks
- Lesson 3: Use Cases

## Module 8: UCS Director PowerShell API

- Lesson 1: Cisco UCS Director PowerShell Console
- Lesson 2: Installing & Configuring
- Lesson 3: Working with Cmdlets

## Module 9: Cloupia Script

- Lesson 1: Structure
- Lesson 2: Inputs & Outputs
- Lesson 3: Design
- Lesson 4: Examples

## LAB OUTLINE:

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- Lab 1: Self Service Portal creation
- Lab 2: Advanced Catalog Options
- Lab 3: Designing an Advanced Workflow
- Lab 4: Application Containers
- Lab 5: SSH Scripting
- Lab 6: Compound Task
- Lab 7: PowerShell Scripting
- Lab 8: Cloupia Script
- Lab 9: Custom Tasks & the API