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## Data Center Unified Computing System Troubleshooting

**Duration: 4 Days**    **Course Code: DCUCTS**

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### Overview:

This in-depth technical troubleshooting training enables you to troubleshoot Level 2, complex Unified Computing Systems (UCS), Nexus 1000V, B-series, and C-series integration issues.

This course is delivered via WebEx. Headsets are recommended but not required. Course hours are generally 10am-6pm ET

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### Target Audience:

UCS support-level engineers Technicians and engineers responsible for advanced UCS troubleshooting

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### Objectives:

- UCS system architecture
  - Diagnose and remedy common issues on the UCS B and C Series systems, Unified Fabric Connectivity, and the Nexus 1000V
  - Gather key technical support files for timely system recoveries and gather data needed to work with the Cisco
  - Technical Assistance Center (TAC)
  - Perform system and firmware upgrades
  - Monitor system events and use the built-in troubleshooting tools
  - Cisco UCS Memory Architecture
  - Integrate C-Series into the Unified Cisco System Manager (UCSM)
  - Recognize and resolve nexus 1000V-related installation and operational failures
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### Prerequisites:

- DCUCI v4.0 - Data Center Unified Computing Implementation
  - DCUCI v3 - Cisco Data Center Unified Computing Implementation
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### Follow-on-Courses:

- There are no follow-ons for this course
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## Content:

### 1. Troubleshooting Cisco UCS in the Data Center

#### Cisco UCS Configuration Confirmation

- UCS Architecture
- Using Management Interfaces to Identify UCS Configuration Parameters
- Chassis and Blade Discovery

#### Cisco UCS Support Tools

- Intelligent Platform Management Interface (IPMI)
- Serial over LAN (SoL)
- Data Gathering

#### Cisco UCS Advanced Operations

- Ethernet Switching Mode
- EHV Mode
- Switch Mode

#### Fibre Channel Switching Mode

- NPV Mode
- Fiber Channel Switch Mode
- Counters and Statistics

#### LAN and SAN Connectivity

- LAN Connectivity
- SAN Connectivity
- SAN Boot

#### Cisco UCS Upgrades

- Bundles
- Fabric Interconnect Recovery

#### Cisco Unified Computing System Memory

- Memory Primer

### Integrating C-Series and Cisco UCS Manager

- Installation

### 2. Troubleshooting Nexus 1000V Installation and Operations Problems

#### Installations on Cisco UCS

- Troubleshooting the Installation of Nexus 1000V on UCS B-Series Servers Running VMware
- VSM Installation Considerations
- VEM Installation Considerations
- Troubleshooting VSM-VEM Connectivity Issues
- Troubleshooting High Availability Problems

#### Data Plane Issues

- Virtual and Physical Interfaces: VM Guest to External Network
- Nexus 1000V Operations: Data Plane Pack Flow
- Troubleshooting Approaches Based on TAC Cases

## Further Information:

For More information, or to book your course, please call us on +254 713 027 191

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