ProTech Professional Technical Services, Inc.

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ACI Operations & Troubleshooting Boot Camp (ACI OT BC)

Course Summary

Description

ACI Operations and Troubleshooting is a three-day, instructor-led course designed for data center architects and network engineers to learn how to operate and troubleshoot a Data Center Network Infrastructure running Cisco ACI.

Objectives

During this course, students will:
- Operationalize and troubleshoot the ACI Fabric
- Understand APIC and its monitoring, management, and troubleshooting aspects
- Avoid common mistakes and recognize common symptoms

Topics

- ACI Overview and Configuration Review
- Configuration Management
- APIC Management Access Protocols and Interfaces
- Monitoring
- Troubleshooting

Audience

This course is designed for:
- SE's
- Customers Engineers
- Field Engineers
- DC Architects
- Network Infrastructure Personnel
- Cloud Infrastructure Personnel
- Network Operation Personnel

Prerequisites

To fully benefit from this course, students should have the following prerequisite skills and knowledge:
- Familiarity with Data Center infrastructure operations
- Familiarity with management of Cisco DC switches
- Understanding of basic network troubleshooting experience
- Basic System/Network Administration skills (Linux/Windows)
- Experience with DC Operations
- Recommended: Completion of ACI-FE Bootcamp, ACI-FE Essentials, or equivalent experience.

Duration

Three days

Course Outline

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I.   *ACI Overview and Configuration Review*

II. *Configuration Management*
   A. Installing, upgrading, backing up, and restoring ACI fabric
   B. Create admin-level user account
   C. Configuration Restore

III. *APIC Management Access Protocols and Interfaces*
   A. Protocols and interfaces for ACI access
   B. Basic GUI, Visore, CLI show commands

IV. *Monitoring*
   A. Always-on and on-demand monitoring tools
   B. Audit Log
   C. Configuring Syslog
   D. Configuring SNMP
   E. Custom Monitoring Policy
   F. Traffic Map

V.   *Troubleshooting*
   A. Methodologies, tools and specific examples
   B. Taboo Contract, iPing, End Point Tracker, Contract Drops, Contracts, Traceroute, Atomic Counters, SPAN
   C. Challenge Lab