

Operating and Implementing Cisco WAN Automation Engine (WAE200)

Course Content:

- WAE Solution and Architecture Overview
- Examining WAE
- Examining WAE Architecture and Design
- Examining WAE Applications and Use Cases
- WAE Solution Implementation
- Planning a WAE Deployment
- Deploying WAE
- Describing WAE Integration Options
- Network Model Configuration
- Describing the Collection Process
- Describing Network Interface Modules
- Creating Network Models
- Configuring WAE Modeling Daemon
- WAE Automation Bandwidth Applications
- Deploying Bandwidth on Demand Application
- Deploying Bandwidth Optimization Application
- WAE Design Fundamentals
- Getting Started with WAE Design
- Describing Demands and Traffic Tools
- Modeling Interior Gateway Protocol (IGP) and BGP
- Describing Failures and Simulation Analysis
- WAE Design Traffic Engineering and Optimization
- Engineering Traffic by Using Metrics
- Engineering Traffic by Using Resource Reservation Protocol with Traffic Engineering (RSVP-TE)
- Engineering Traffic by Using Segment Routing-Traffic Engineering (SR-TE)
- Engineering Traffic by Using Latency Constraints
- Modeling Quality of Service (QoS)
- Introduction to WAE API
- Introducing WAE Design Remote Procedure Call (RPC) API
- Introducing WAE Optimization and Prediction Module (OPM) API
- Introducing WAE Server Representational State Transfer Configuration Protocol (RESTCONF) and Network Configuration Protocol (NETCONF) APIs
- WAE Live Deployment
- Describing the Components of WAE Live
- Configuring WAE Live
- Explaining WAE Live Features
- Maintenance and Troubleshooting
- Maintaining WAE
- Troubleshooting WAE

Lab outline:

- Virtual Learning Lab – Getting Started
- WAE Server Setup and Configuration
- Bandwidth on Demand Application
- Bandwidth Optimization Application
- Getting Started with WAE Design
- Describing Traffic with Demands
- Failures and Simulation Analysis
- Engineering Traffic Using Metrics
- Engineering Traffic Using RSVP-TE and SR-TE
- WAE Design API
- Configuring WAE Live
- WAE Live Features