TEDI – Cisco Thousand Eyes Deployment & Implementation

Module 1: Evolution of Application Delivery and Network Monitoring Requirements

- The SaaS Cloud Disruption
- The Importance of Enterprise App-to-User Visibility

Module 2: Thousand Eyes Platform Overview

- ThousandEyes Platform and Architecture
- Working with Agents
- Understanding Consumption Models and Pricing
- External Integrations

Module 3: Solution Use Cases

- ThousandEyes Cloud Adoption Use Cases
- Use Cases for Digital Experience
- L3 And WAN Use Cases
- Qualifying ThousandEyes Strategic Value

Module 4: Enterprise Agent Installation and Placement

- Enterprise Agent Overview and Data Collected
- About BrowserBot
- OVA and Hyper-V Hypervisor Installation
- UX Installation and Docker Deployment
- Installation for Cisco IOS XE Containers
- Installation for Cisco Catalyst 9000 Series Switches
- Other Installation Options
- Enterprise Agent Clusters
- Interface Selection, Creation and Configuration
- Placement Considerations

Module 5: Endpoint Agent Installation and Configuration

- Endpoint Agent Overview and Data Collected
- Endpoint Agent Installation options
- Configuration and Deployment
- Creating Scheduled Tests
- User Experience

Module 6: Thousand Eyes Test Types and Functionality

- Cloud and Enterprise Agent Based Tests

- Nesting of Tests
- Data Collection
- Adding Tests
- Relating Foundation Technologies to Test Methods and Output

Module 7: Network Layer Tests

- Test Inputs
- Agent-to-Server Test Configuration
- Agent-to-Agent Test Configuration
- End-to-End Metrics and Visualization

Module 8: BGP Testing

- BGP Protocol Review
- Test Inputs
- Alert Rules
- Interpreting BGP Route Visualization

Module 9: DNS Testing

- DNS Review
- DNS Test Inputs
- Analyzing DNS Test Output
- DNS+ Layer Tests Settings
- DNS+ Layer Tests Output

Module 10: Testing Web Servers

- HTTP Inputs
- FTP Server Test Inputs
- Analyzing Web Test Output

Module 11: VoIP Tests

- VoIP Technology Review
- RTP Settings
- SIP Server Settings
- Interpreting RTP Stream and SIP Server Output

Module 12: Transaction Testing

- Modeling User Workflows
- Basic Test Configuration
- Transaction Scripting Examples
- Using the ThousandEyes Recorder
- Selenium and Web Dev Tools
- The Document Object Model and Interpreting Waterfall Charts

Module 13: SD-WAN Visibility and App Performance

- SD-WAN Review
- Leveraging Visibility to Baseline App and Network Performance
- SD-WAN Branch, SaaS, and ISP Metrics
- Using Underlay/Overlay Visualizations to Validate Performance and Isolate Issues

Module 14: Outage and Performance Analysis with ThousandEyes

- Determining the Correct Test Type and Config
- Correlating and Validating Test Results

Module 15: Monitoring, Alerting and Remediation

- Using ThousandEyes Monitoring to Improve Digital Experience
- Determining Actions to Take Based on Test Output
- Using Snapshots
- Managing Alerts
- Capturing Historical Data

Module 16: Troubleshooting

- Missing or Incorrect Path Visualization Information
- HTTP server test errors
- Endpoint Agent Issues
- Firewall Considerations
- CLI Network Troubleshooting Utilities