VMware SD-WAN for Service Providers [V4.x]

Module 1 Course Introduction

• Introductions and course logistics

• Course objectives

Module 2 VMware SD-WAN Installation for Service Providers

• Describe security challenges for distributed enterprises

• Describe the VMware SASE solution for securing distributed enterprises

• Describe VMware deployment models for service providers

• Explain how VMware SD-WAN can help to transform MPLS networks to service-ready networks

• Identify resource requirements for installing VMware SD-WAN Orchestrator and Gateways

• Describe the procedure for installing VMware SD-WAN Orchestrator

• Describe the process for provisioning VMware SD-WAN Orchestrator

• Identify the external service dependencies for VMware SD-WAN Orchestrator

• Recognize disaster recovery options for SD-WAN Orchestrator

• Describe the disaster recovery workflow for VMware SD-WAN Orchestrator

• Identify the requirements for installing VMware SD-WAN Gateway instances

• Describe the procedure for installing VMware SD-WAN Gateway instances

• Describe the procedure for installing VMware SD-WAN Gateway instances on ESXi hosts

• identify Data Plane Development Kit support for gateway performance

• Describe the VMware SD-WAN Gateway deployment modes for service providers

• Configure a VMware SD-WAN Gateway for a service provider

• Assign a VMware SD-WAN Gateway for a service provider

Module 3 VMware SD-WAN Monitoring and Maintenance

- Describe VMware SD-WAN Orchestrator system health-monitoring features

- Describe VMware SD-WAN Orchestrator process-monitoring features

- Describe VMware SD-WAN Orchestrator storage-monitoring features

- Describe VMware SD-WAN Orchestrator database-monitoring features

- Describe the VMware SD-WAN Orchestrator upgrade process

- Describe the VMware SD-WAN Orchestrator backup and data archival processes

- Describe the VMware SD-WAN Orchestrator process to expand database disks

- Describe the VMware SD-WAN Orchestrator system metrics for monitoring

- Describe how systems metrics are collected for monitoring VMware SD-WAN Orchestrator

- Describe VMware SD-WAN Gateway additions and removals

- Describe the VMware SD-WAN Gateway upgrade process

- Describe the VMware SD-WAN Gateway validation process

Module 4 VMware SD-WAN Security and Edge Licensing

- Describe the VMware SD-WAN PKI security infrastructure

- Recognize VMware SD-WAN PKI authentication modes

- Describe VMware SD-WAN certificate operations

- Describe the VMware SD-WAN PKI certificate authentication configuration

- Describe the VMware SD-WAN PKI configuration process

- Compare operator and partner logins

- Describe the VMware SD-WAN self-signed certificate authority process

- Describe VMware SD-WAN certificate authority renewal and revocation

- Describe the VMware SD-WAN intermediate certificate authority

- Describe the VMware SD-WAN certificate chain of trust

- Describe the VMware SD-WAN Edge licensing and license types

- Assign and view the VMware SD-WAN Edge licenses and reports

Module 5 VMware SD-WAN Reporting and Diagnostics

- Describe the VMware SD-WAN network monitoring tools

- Describe the VMware SD-WAN network visibility options and controls

- Identify the VMware SD-WAN Orchestrator reporting features

- Describe and analyze VMware SD-WAN Orchestrator events

- View enterprise reports by operator, partner, and administrator

- View historical network insights and real-time reports on path visibility

- Describe common VMware SD-WAN alerts

- Describe the VMware SD-WAN heart mechanism for alerts

- Configure VMware SD-WAN alerts

- Analyze common VMware SD-WAN alerts

- Use standard networking tools for monitoring VMware SD-WAN

- Describe remote diagnostic actions available on VMware SD-WAN Orchestrator

- Use the remote diagnostics tools on VMware SD-WAN Orchestrator

- Generate remote diagnostics bundles and packet captures

Module 6 VMware SD-WAN Orchestrator and Gateway Troubleshooting

- Recognize the basic sanity checks to troubleshoot VMware SD-WAN Orchestrator

- Create diagnostic bundles to enable support to troubleshoot VMware SD-WAN Orchestrator

- Recognize the basic checks to troubleshoot VMware SD-WAN Orchestrator

- Troubleshoot common VMware SD-WAN Orchestrator performance issues

- Describe the tools available to troubleshoot VMware SD-WAN Gateway

- Analyze sample outputs for debugging a VMware SD-WAN Gateway issue

• Use Data Plane Development Kit to improve VMware SD-WAN Gateway performance

Module 7 VMware SD-WAN Orchestrator and Gateway Commands

• Recognize when and how to use VMware SD-WAN Orchestrator database-monitoring commands

• Recognize when and how to use the VMware SD-WAN Gateway process-monitoring commands