

Control-M 22: Fundamentals Administering (ASP)

[Learning Path >](#)

Course Code: AUTO-CMFA-9220-ASP

Modality

Assisted Self-paced (ASP)

Duration

Equal to 4 Days

Applicable Versions

Control-M 9.0.22.000

Target Audience

- Administrators

Course Overview

This course provides instruction and hands-on practice in the administration and customization options of the distributed systems Control-M solution. Control-M is a monitoring and management tool for the enterprise batch-scheduling environment. It allows users to manage job processing across all distributed systems platforms supported by instances of Control-M/Server and Control-M/Agent.

This course offers additional multilingual subtitles/closed captioning (cc), generated using an Artificial Intelligence translation tool, in French, German, Italian, Japanese, Korean, Portuguese (Brazil), Simplified Chinese, and Spanish.

Prerequisites

- Control-M 22: Overview (WBT)
- Control-M 21.x: Comparing Web Interface with Client Interface (WBT)

Recommended Trainings

- Control-M 22: Concepts for Operators and Schedulers (WBT)
- Control-M 22: Fundamentals Operating (ILT)

Learning Objectives

- Explain the Control-M architecture tiers
- Identify the contents of Control-M/EM and Control-M/Server databases
- List Control-M users, roles, and authorizations
- Outline steps to configure a new Control-M environment
- Understand the job lifecycle and the New Day Process
- Access Control-M Web, open Viewpoints, and define basic OS jobs
- Manage the Control-M/EM, Control-M/Server and Control-M/Agents via Control-M Web and the CLI
- Explain the Control-M/EM, Control-M/Server and Control-M/Agent processes and their purpose
- Start, stop, and monitor Control-M/EM, Control-M/Server and Control-M/Agent processes using the CLI
- Troubleshoot Control-M/Server to Control-M/Agent connectivity
- Configure Run As Users and related OS security settings (Windows & UNIX/Linux)
- Explain Agentless Hosts, configure SSH/WMI
- Define and manage Host Groups
- Update system parameters and time zone settings
- Configure alerts, notifications, and email integration
- Install and configure Application Plug-ins and Connection Profiles
- Set up External Vault integration
- Implement High Availability for the Control-M/EM and Control-M/Server
- Monitor, backup and restore the Control-M databases
- Enable Audit and Annotations
- Define and generate Reports
- Troubleshoot using debug mode, health checks, and log analysis

Course Activities

- Student and lab guide as ebook
- Product community for questions and answers
- Course recording via WBT
- Access to instructor for up to 2 hours by appointment (use within 90 days of registration)

Virtual Lab

- With this offering, you will receive student and lab guides as eBooks. You will have access to product and communities to answer your questions. All the course recordings will be available in the form of WBTs. You will have access to the instructors for up to 2 number of hours by appointment. Make sure to use this time up within **90 days** of registration.
- Lab Vouchers are issued at course registration time and must be redeemed within **90 days** of receipt. Once Lab Voucher is redeemed, **28 days** of lab access (portal access) are granted with **24 hours** of on-demand lab time to be used. Once the lab time is used, or the 28 days expires, the lab access ends.
- Click **here** for additional ASP virtual lab access information in a graphical format.

Course Modules

Module 1: Control-M Architecture

- Explain the Control-M architecture tiers
- List the contents of the Control-M/Enterprise Manager and Control-M/Server databases
- List the Control-M users and roles
- List the high-level configuration steps for a new Control-M environment
- Understand the lifecycle of a job
- Explain the New Day Process
- Access the Control-M Web interface
- Open a Viewpoint
- Define basic OS jobs

Module 2: Control-M/EM Components

- Manage the Control-M/EM in Control-M Web
- Sort, filter and group tables in Control-M
- Explain each Control-M/EM process and its purpose
- Startup, shutdown and check the status of Control-M/EM processes using the command line interface
- Utilize the ctl command
- Explain and use the Control Shell
- Add a Control-M/EM component

Module 3: Control-M/Server Components

- List and explain the Control-M/Server processes
- Manage the Control-M/Server using the Control-M Web interface
- Start, stop, monitor and manage the Control-M/Server using the Command Line Interface

Module 4: Control-M/Agent Components

- Manage Control-M/Agents from Control-M Web
- List and explain the Control-M/Agent processes
- Update Control-M/Agent properties
- Explain and set the Control-M/Agent connection modes
- Start and stop Control-M/Agents
- Troubleshoot Server to Control-M/Agent connectivity

Module 5: Control-M/Agent Security

- Explain what Run As Users are and why they are needed
- Add Run As Users
- Describe and set the Windows parameter “Logon as User”
- Configure Windows Local Security Policies for Control-M Run As Users
- Change the Control-M Agent Windows Service account
- Describe and set the Linux/UNIX Agent Modes

Module 6: Agentless Hosts

- Explain what Agentless Hosts are and their advantages and disadvantages
- Understand how to configure a Java-Based Agentless Host on UNIX
- Define and manage SSH and WMI Agentless Hosts
- Generate SSH Keys
- Define WMI Agentless Host requirements

Module 7: Host Groups

- Define and manage Host Groups
- Create host Participation Rules
- Create Agent Restrictions

Module 8: System Parameters

- Update EM, Server and Agent system parameters
- Update commonly modified EM, Server and Agent system parameters
- Manually update time zones
- Configure Automatic Time Zone Management

Module 9: Notifications

- Explain the purpose of Alerts and Exception Alerts
- Access Exception Alerts
- Send Alerts and Exception Alerts via SNMP
- Configure Alert and Exception Alert system parameters
- Configure Notification Destinations
- Configure email integration

Module 10: Application Plug-ins

- Explain what Application Plug-ins are and how they function
- Download and install an Application Plug-in
- Create Centralized Connection Profiles
- Configure External Vault integration using CyberArk

Module 11: High Availability

- Describe the role and function of EM and Server software managed high availability
- Failover and fallback an EM or Server
- Configure the Failover Mode
- Configure database replication for a Server installation with a dedicated PostgreSQL database

Module 12: Authorizations

- Explain how Authorizations work in Control-M
- Define a User and a Role
- Integrate Control-M with an External Authentication provider
- Define a User View

Module 13: Database Maintenance

- Monitor EM and Server databases
- Manage Control-M databases using command line utilities
- Backup and restore the Control-M databases

Module 14: Auditing and Reporting

- Explain and enable Audit and Annotation
- Define the Audit and Annotation Categories
- Access and run Control-M Reports
- Run a Usage Report
- Configure Usage Alerts

Module 15: Troubleshooting

- Explain the troubleshooting process in Control-M
- Place Control-M processes into debug mode
- Run the Health Check Utility
- Identify and parse process logs
- Access and use BMC Support Central