

Control-M 22: Fundamentals Automation API Developing (ASP)



ABSTRACT

[Learning Path >](#)

Course Code: AUTO-CMAP-9220-ASP

Modality	Duration	Applicable Versions	Target Audience
Assisted Self-paced (ASP)	Equal to 1 Day	Control-M 9.0.22.000	Developers

Course Overview

By accessing the capabilities of Control-M via its Automation Application Programming Interface (API) from the Developers' Self-Service Portal, developers can work with workflow orchestration, further enhancing the self-service nature of the company's DevOps processes.

This assisted self-paced training covers basic concepts of Control-M Automation API, how to write job definitions in JSON format, working with environments, validating and executing job definitions file, and how to review the job definitions in Control-M environment. In addition to this, it also talks about deploy and run services. Finally, students will also learn about advanced job definitions and the use of deploy descriptor.

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.

Note: This assisted self-paced hybrid course is designed for both Control-M On-Prem and Control-M SaaS learners. All participants will have access to the course video recordings, allowing you to learn at your own pace. If you are using Control-M On-Prem, you'll also receive the course eBook and hands-on access to the lab environment.

Prerequisites

- Control-M 22: Overview (WBT)
- Control-M 22: Concepts for Operators and Schedulers (WBT)
- Control-M 21.x: Comparing Web Interface with Client Interface (WBT)

Recommended Trainings

- Control-M 21.x: Fundamentals Using (WBT)
- Control-M 22: Fundamentals Operating (ILT/ASP)
- Schedulers: Control-M 22: Fundamentals Scheduling (ILT/ASP) **OR**
- Administrators: Control-M 22: Fundamentals Administering (ILT/ASP)

Learning Objectives

- Describe the Control-M architecture and Control-M Roles
- Access the Control-M web interface
- Understand the purpose and usage of the Control-M Automation API
- Explain the Control-M Automation API Services
- Use the Environment, Session, Build, Run and Deploy Services
- Use JSON to create Control-M Jobs-as-Code
- Use a Deploy Descriptor to modify code to comply with different environment standards

- Understand how to build a CI/CD pipeline to automate code deployment

Course Activities

- Student and lab guide as ebook
- Product community for questions and answers
- Course recording via WBT
- Access to instructor for up to 0.5 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 **0.5** 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 **6 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: Getting Started With Control-M Automation API

- Explain the purpose of, and differentiate between Control-M and Control-M SaaS
- List the interfaces that can be used to access Control-M
- Explain the purpose of Control-M Automation API
- Explain the purpose of the Control-M Automation API Services
- Access Control-M Automation API documentation
- Install the Automation API command line interface
- Generate an API Token
- Access and use the Control-M Swagger UI
- Use the Environment Service to connect an Automation API command line interface environment to the Control-M/EM
- Use the Session Service to login to Control-M and create a session token

Module 2: Developing Jobs Using Automation API

- Explain the process to build, deploy and run Jobs-as-Code
- Explain what Control-M Workbench is, and how to install it
- Explain key Control-M concepts:
 - Folders and jobs
 - Workspaces
 - New Day Process (NDP)
 - Viewpoints
- Define folders and jobs in the Planning domain of Control-M
- Define folders and jobs in JSON code
- Use the Build Service to validate JSON code

Module 3: Running Jobs

- Use the Run Service to run folders and jobs in a Control-M environment
- Use the Deploy Service to deploy folders and jobs to a Control-M environment

Module 4: Writing Jobs-as-Code

- Define Defaults in code, to simplify Jobs-as-Code creation
- Define dependencies between folders and jobs
- Define folder and job schedules
- Utilize the Control-M Python Client to define folders and jobs

Module 5: Using the Deploy Descriptor

- Understand and use Automation API Deploy Descriptors
- Assign, Replace and Add attributes when modifying code with a Deploy Descriptor
- Use JSON Path to identify attributes
- Filter which jobs/folders should be modified by using ApplyOn

Discount Options

Have multiple students? Contact us to discuss hosting a private class for your organization.

Contact us for additional information 