

CONTROL-M

Control-M 21.x: Fundamentals Automation API Developing

[Learning Path >](#)

Course Code: AUTO-CMAP-9211

Modality	Duration	Applicable Versions	Target Audience
Instructor-Led Training (ILT)	1 Day	Control-M 9.0.21.100	<ul style="list-style-type: none">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 one-day instructor-led 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.

Prerequisites

- N/A

Recommended Trainings

- Control-M 21.x: Fundamentals Using (WBT)

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 Modules

Module 1: Overview of Control-M Automation API

- Describe Control-M, Control-M Roles and Control-M Automation API
- Explain the basics of Control-M Automation API
- Access the Control-M Web interface

Module 2: Getting Started with Automation API

- Know the prerequisite steps to get started with Control-M Automation API
- Install the required Automation API components
- Access the Automation API Documentation
- Identify Control-M Automation API Services
- Use Control-M Automation API Services
 - Environment
 - Session
- Understand the process flow for creating and deploying Jobs-as-Code

Module 3: Developing Jobs-as-Code

- Explain basic Control-M concepts such as defining Jobs and Folders
- Recognize JavaScript Object Notation (JSON)
- State JSON Syntax Rules
- Explain the basics of Job Definitions as Code
- Use JSON to define different Control-M Objects
 - Folder
 - Job
 - Defaults
- Understand how to validate and troubleshoot the JSON code

Module 4: Using the Run and Deploy Services

- Run job code in a Control-M environment
- Deploy job definitions to a Control-M environment
- Run deployed jobs on a Control-M environment

Module 5: Advanced Jobs-as-Code

- Define an order of execution using both Flow and Events
- Define a schedule for jobs and folders
- Define before and after notifications

Module 6: 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
- Build a CI/CD pipeline

Discount Options

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

Contact us for additional information 