



# UCMDB350 - Configuration Management System 9.x Advanced

Instructor-Led Training  
For version 9.0

## OVERVIEW

This course introduces the basic concepts and terminology for the Configuration Management System (CMS). This course demonstrates how to design a CMS and discusses implementation using HP UCMDB and DDM products. The students will learn how to configure, demo, and extend the change management solution with Service Manager to implement the automate change management process. In addition, students will learn how to learn scope a discovery project and understand the best practices and discovery lifecycle. The students will learn how to write discovery patterns and how to debug the patterns within the HP UCMDB 9.x product.

The hands-on labs in this course use version 9.0 of the software.

## INTENDED AUDIENCE

- For Process Owners, Project Managers, and other managers, this is the only class you will need.
- Business Technology Optimization (BTO) architects leveraging the power of the integrated CMDB across the BTO/BSM portfolio.
- Those in charge of Configuration Management and the documentation and storage of business services and their related assets and relationships.
- Project managers, application modelers, discovery engineers, and UCMDB implementation consultants.
- Integration specialists implementing data federation across the different business silos and software product families

**DURATION: 4 Days**

**SOFTWARE VERSION: 9.0**

## PREREQUISITES

- Attended the UCMDB 9.0 Essentials course.
- At least 6 months experience with UCMDB & DDM.
- Prior experience with scripting language such as Python, Perl, etc.

## COURSE OBJECTIVES

At the end of the course, you will have gained insights and knowledge on:

- Multi-Tenancy
- Population Flow
- Data Push Flow
- Reconciliation
- Federation Flow
- Discovery architecture, scoping, and development lifecycle
- Python and regular expressions
- Discovery SDK
- Troubleshooting

## RECOMMENDED FOLLOW-UP COURSES

### **Module 1: Overview**

- Welcome and Administrative Tasks
- Course Introduction
- Introduction to Use Case
- Introduction to Lab Environment

### **Module 2: Introduction to CMS9**

- IT Operation Challenges
- Configuration Management Ssystem
- CMS Integration Methods

### **Module 3: Multi-Tenancy**

- What is Multi-Tenancy
- Multi-Tenancy Use Cases
- Multi-Tenancy Architecture
- Using the Management Tool

### **Module 4: Population Flow**

- Introduction to Population Flow
- Configuration an Integration Point
- CMS Sync Components
- CMS Sync Solutions
- CMS Sync Use Cases

### **Module 5: Data Push Flow**

- Introduction to Data Push Flow
- Data Push Use Cases
- Configure the OOB Integration
- Extending the Integration

### **Module 6: Reconciliation**

- What Is Reconciliation
- Reconciliation History
- Reconciliation in CMS 9.0
- Identification Rules

### **Module 7: Federation**

- Introduction to Federation Flow
- Federation Architecture
- Federation Use Case
- Federation Capabilities

### **Module 8: DDM Architecture**

- Introduction to Discovery
- DDM Probe Architecture
- Discovery Modes
- Discovery Domains
- Trigger TQL
- World Layer
- Configuration
- Adapter

**Module 9: DDM Scoping**

- Planning the DDM Discovery
- Profiling for Discovery
- Researching for Discovery
- Discovery Best Practices

**Module 10: DDM Lifecycle**

- DDM Development 10 Commandments
- Development Lifecycle

**Module 11: Python and Regular Expressions**

- Python and Jython Overview
- Python Basics
- Working with Strings
- Working with Lists
- Control Flow Syntax
- Less Basic Programming
- Regular Expressions

**Module 12: Discovery SDK**

- The DDM API
- Structure of the Jython File
- Results Generation by the Jython Script
- Framework Instance
- Jython Libraries and Utilities

**Module 13: Troubleshooting**

- Log Files
- Troubleshooting Protocols
- DDM Probe Job Information
- DDM Discovery Analyzer
- Using Eclipse with DA
- Using Eclipse Debugging with DA