



# BMC Discovery 20.x: Fundamentals Application Modeling

## COURSE ABSTRACT

### COURSE CODE

- » SPPT-DIAM-2008

### APPLICABLE VERSIONS

- » BMC Discovery 11.1, 11.3, 20.02 and 20.08

### DELIVERY METHOD

- » Instructor-led Training (ILT)

### COURSE DURATION

- » 5 Days

### PREREQUISITES

- » n/a

## Course Overview

BMC Discovery is a datacenter discovery solution that automatically discovers datacenter inventory, configuration and relationship data, and maps applications to the IT infrastructure. BMC Discovery establishes the foundation for improving IT processes and productivity by providing timely and actionable insight to make informed decisions in IT service management, asset management and infrastructure/operations management.

This course enables users to extend and maintain a BMC Discovery deployment beyond the initial baseline. It also enables users to model the complex custom software using the Start Anywhere Application Mapping (SAAM), Collaborative Application Mapping (CAM), and The Pattern Language (TPL) features. This course also covers CMDB Extensions used for enhancing CMDB synchronization.

**IMPORTANT:** The **BMC Certified Associate: Discovery 20.x Application Modeling for Administrators Online Exam** is included with the *BMC Discovery 20.x: Fundamentals Application Modeling* course. Taking the exam and pursuing certification is optional. You will have one attempt to pass the exam. No retakes will be offered. Those who pass will receive the title of **BMC Certified Associate: Discovery 20.x Application Modeling for Administrators**.

## Target Audience

- » Administrators
- » Modelers

## Course Objectives

- » Describe the data model and operating principles
- » Review important functions in The Pattern Language (TPL)
- » Describe Start Anywhere Application Mapping (SAAM)
- » Describe the Collaborative Application Mapping (CAM) process
- » Adapt pattern templates to discover custom software
- » Use the manual pattern execution to test the patterns
- » Explain the Pattern Language (TPL) concepts
- » Extract data using XPath and Regular Expressions
- » Write efficient regular expressions for triggers
- » Model Software Instances and Business Application Instances
- » Identify techniques available to discover the versions of Software Instances and Business Application Instances
- » Build a complete and versioned application model with relationships
- » Explain Definition Blocks
- » Explain Data Sources
- » Adapt pattern templates used in CMDB Synchronization
- » Describe best practices to use TPL
- » Modelling workshop incorporating skills learnt

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### COURSE ACTIVITIES

- » Classroom Presentations
- » Hands-on Lab Exercises


### BMC DISCOVERY LEARNING PATH

- » <http://www.bmc.com/education/courses/discovery-training.html>

### ACCREDITATION AND CERTIFICATION PATH

- » [https://www.bmc.com/content/dam/bmc/education/Graphic\\_Learning\\_Path\\_DSM\\_Discovery.pdf](https://www.bmc.com/content/dam/bmc/education/Graphic_Learning_Path_DSM_Discovery.pdf)

### DISCOUNT OPTIONS

- » Have multiple students? Contact us to discuss hosting a private class for your organization
- » Contact us for additional information 

## Course Modules

### Module 1: Application Mapping Concepts

- » Basics of Datastore
- » Nodes
- » Patterns
- » Query Language

### Module 2: Start Anywhere Application Mapping (SAAM) Concepts

- » Concepts of Start Anywhere Application Modeling
- » Publishing an Application Model
- » Modify a Published model
- » Using the Visualization Tools
- » Model Rules

### Module 3: Collaborative Application Mapping (CAM)

- » Introduction to Application Mapping
- » Collaborative Application Mapping
- » Creating a Prototype
- » Functional Components
- » Mapping the Application

### Module 4: Edit Pattern Templates

- » Download Pattern Templates
- » Edit a Simple Software Instance (SI) Pattern Template
- » Testing a Simple SI Module
- » Working with the SI Version Package Template

### Module 5: Application Mapping Using The Pattern Language (TPL)

- » Overview of Application Mapping
- » Basics of The Pattern Language (TPL)
- » Metadata
- » Triggers
- » The Pattern Body
- » Regular Expressions
- » Functions
- » Path Restrictions
- » Metadata and XPath
- » Relationships and Pattern Sections
- » Business Application Instances

### Module 6: Definition Block

- » Introduction to the Definitions Block
- » User Defined Functions
- » SQL Discovery
- » Data Sources

### Module 7: CMDB Sync Mapping

- » CMDB Synchronization
- » Viewing Data in the CMDB

### Module 8: Best Practices for Developing Solutions

- » Developing Patterns
- » Writing Regular Expressions
- » Preparing for Modeling
- » Collaborative Application Modeling
- » Extending Directly Discovered Data
- » Constructing SIs and BAI

### Module 9: Modeling Workshop

- » Build Application Models Using SAAM
- » Build a Model of Tomcat Application Server Using CAM
- » Update the TrueSight Application Server Model Using TPL

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