



## COURSE SYLLABUS

<b>COURSE TITLE:</b>	<b>50595A Master Data Services with SQL 2008 R2</b>
<b>FORMAT:</b>	Instructor-led
<b>CERTIFICATION EXAMS:</b>	None

This course syllabus should be used to determine whether the course is appropriate for the students, based on their current skills and technical training needs. Course content, prices, and availability are subject to change without notice.

---

**ELEMENTS OF THIS SYLLABUS ARE SUBJECT TO CHANGE.**

### ABOUT THE COURSE

Organizations need to work from reliable information. You can ensure that the integrity of information and consistency of data is constant across different applications with help from Microsoft SQL Server 2008 R2 Master Data Services. This three-day instructor-led course covers Master Data Services, a new and powerful feature designed to help an organization create a structure and hierarchy for data, so that data collected and used across multiple departments, silos and databases is standardized and aligned. This ensures that different databases are interoperable.

### AUDIENCE

This course is intended for SQL professionals, business intelligence developers, data analysts, data stewards, and project managers that need to learn how to utilize Master Data Services.

#### Why this course may be for you:

- ▶ Your company is implementing business intelligence
- ▶ Your various data consumers need consistency
- ▶ You need to ramp up on Master Data Services

### AT COURSE COMPLETION

After completing this course, students will be able to:

- ▶ Be at a mid-level of competence in MDS.

### PREREQUISITES

Before attending this course, students must have:

- ▶ A good idea of what direction their organization wants to go with Master Data Services.
- ▶ A working knowledge of Microsoft SQL.

### ADDITIONAL READING

To help you prepare for this class, review the following resources:

- ▶ Alex Berson and Larry Dubov, *Master Data Management and Governness* (Columbus: The McGraw-Hill Companies, 2011)
- ▶ Allen Dreibelbis et al., *Enterprise Master Data Management A SOA Approach to Managing Core Information* (Boston: Pearson Education, Inc., 2008)



## MODULE 1: COURSE OVERVIEW

### Lessons

- ▶ Introduction
- ▶ Course Materials
- ▶ Facilities
- ▶ Prerequisites
- ▶ What We'll Be Discussing

### Lab 1: COURSE OVERVIEW

- ▶ None

After completing this module, students will be able to:

- ▶ Successfully log into their virtual machine.
- ▶ Have a full understanding of what the course intends to cover.

## MODULE 2: MASTER DATA MANAGEMENT

### Lessons

- ▶ What is Master Data Management?
- ▶ The Need for Master Data Management
- ▶ Data Quality
- ▶ Operational and Analytical Master Data Management
- ▶ Master Data Management Architectural Patterns
- ▶ Master Data Management Team

### Lab 1: MASTER DATA MANAGEMENT

- ▶ None

After completing this module, students will be able to:

- ▶ Have an overview of master data management.
- ▶ Have an understanding of the challenges.
- ▶ Understand the benefits of implementing a solution.
- ▶ Understand an examination of the various competing architectures.
- ▶ Understand guidelines on the team roles.

## MODULE 3: MICROSOFT MASTER DATA SERVICES OVERVIEW

### Lessons

- ▶ Master Data Services Architecture
- ▶ Master Data Services Key Terms
- ▶ Master Data Services Web Interface
- ▶ Master Data Services SQL Database
- ▶ Installing Master Data Services
- ▶ Creating the Master Data Services Database
- ▶ Initial Configuration

### Lab 1: MICROSOFT MASTER DATA SERVICES OVERVIEW

- ▶ Installation of Master Data Services
- ▶ Configuration of Master Data Services
- ▶ Create the MDS Web
- ▶ Explore the Web Interface

After completing this module, students will be able to:

- ▶ Have an appreciation of the architecture.
- ▶ Have an understanding of the key terms.
- ▶ Understand the relationships between the objects.
- ▶ Understand the installation requirements.
- ▶ Gain a familiarization of the MDS web interface.



## MODULE 4: UNDERSTANDING DATA MODELS

### Lessons

- ▶ Modeling Concepts
- ▶ Modeling Guidelines
- ▶ Building a Model
- ▶ Deploying a Model
- ▶ How to Step-By-Step

### Lab 1: UNDERSTANDING DATA MODELS

- ▶ Develop a Model Using MDS

After completing this module, students will be able to:

- ▶ Have a working knowledge of data models.
- ▶ Understand model development guidelines.
- ▶ Understand model development major steps.
- ▶ Understand implementation of a model.

## MODULE 5: IMPORTING DATA

### Lessons

- ▶ MDS Staging Tables
- ▶ Creating New Members
- ▶ Creating New Collections
- ▶ Adding Members to Collections
- ▶ Updating Member Attributes
- ▶ Importing the Data
- ▶ Validating the Model
- ▶ Error Conditions

### Lab 1: IMPORTING DATA

- ▶ View the Staging Tables
- ▶ Importing Data with SQL Server Integration Services
- ▶ Run the Staging Process
- ▶ Using a Stored Procedure to Initiate the Staging Process
- ▶ Viewing Errors

After completing this module, students will be able to:

- ▶ Understand how to manually load data into models.
- ▶ Understand how to create new members and attributes with SQL.
- ▶ Load data via the staging databases.
- ▶ Have an understanding of the functionality of the staging tables.
- ▶ Understand the error conditions that may occur.

## MODULE 6: VERSION MANAGEMENT

### Lessons

- ▶ Understanding Versions
- ▶ Version Statuses
- ▶ Version Validation
- ▶ Version Flags
- ▶ Ancestry
- ▶ Validating Versions
- ▶ Locking, Unlocking, and Committing Versions

### Lab 1: VERSION MANAGEMENT

- ▶ Create a Version
- ▶ Work with Version Flags



- ▶ Validate a Version
- ▶ View a Version Ancestry
- ▶ Lock, Unlock, and Commit a Version

After completing this module, students will be able to:

- ▶ Understand the need for versions.
- ▶ Understand version status.
- ▶ Understand how to use a version flag.
- ▶ View a version's ancestry.
- ▶ Understand how to lock, unlock, and commit a version.

## **MODULE 7: BUSINESS RULES**

### **Lessons**

- ▶ Business Rules Overview
- ▶ How to Create a Business Rule
- ▶ Business Rules Interface
- ▶ Rule Expressions
- ▶ Conditions and Actions

### **Lab 1: BUSINESS RULES**

- ▶ Create Several Business Rules

After completing this module, students will be able to:

- ▶ Gain an understanding of business rules.
- ▶ Understand how to code a business rule.
- ▶ Work with the web interface.

## **MODULE 8: MASTER DATA SERVICES SECURITY**

### **Lessons**

- ▶ Master Data Services Security Overview
- ▶ Users and Groups
- ▶ Administrators
- ▶ Permission Levels
- ▶ Best Practices

### **Lab 1: MASTER DATA SERVICES SECURITY**

- ▶ Implement Security
- ▶ Test Security

After completing this module, students will be able to:

- ▶ Understand the security in Master Data Services.

## **MODULE 9: PUBLISHING DATA**

### **Lessons**

- ▶ Subscribing Systems
- ▶ Subscription Views
- ▶ Formats
- ▶ Creating Views
- ▶ How Subscribing Systems Can Extract Data

### **Lab 1: PUBLISHING DATA**

- ▶ Create a Subscription View
- ▶ Subscribe to the View



After completing this module, students will be able to:

- ▶ Understand how to use publish data.
- ▶ Understand how to create a subscription view.
- ▶ Have an understanding of formats.
- ▶ Understand how a subscribing system can extract data.

## **MODULE 10: MASTER DATA SERVICES AND WEB SERVICES**

### **Lessons**

- ▶ Using Web Services to Interface with Master Data Services
- ▶ Creating the Web Service
- ▶ Errors in the Web Service

### **Lab 1: MASTER DATA SERVICES AND WEB SERVICES**

- ▶ Create a Web Service Project in Visual Studio

After completing this module, students will be able to:

- ▶ Understand how to use web services to interface with Master Data Services.

