

20463DC

**Implementing a Data  
Warehouse with Microsoft  
SQL Server**

5 DAYS

This course describes how to implement a data warehouse platform to support a BI solution. Students will learn how to create a data warehouse with Microsoft® SQL Server® 2014, implement ETL with SQL Server Integration Services, and validate and cleanse data with SQL Server Data Quality Services and SQL Server Master Data Services.

**Module 1: Introduction to Data Warehousing**

Overview of Data Warehousing  
Considerations for a Data Warehouse Solution

**Module 2: Data Warehouse Hardware Considerations**

Considerations for building a Data Warehouse  
Data Warehouse Reference Architectures and Appliances

**Module 3: Designing and Implementing a Data Warehouse**

Logical Design for a Data Warehouse  
Physical design for a data warehouse

**Module 4: Creating an ETL Solution with SSIS**

Introduction to ETL with SSIS  
Exploring Data Sources  
Implementing Data Flow

**Module 5: Implementing Control Flow in an SSIS Package**

Introduction to Control Flow  
Creating Dynamic Packages  
Using Containers  
Managing Consistency

**Module 6: Debugging and Troubleshooting SSIS Packages**

Debugging an SSIS Package  
Logging SSIS Package Events  
Handling Errors in an SSIS Package

**Module 7: Implementing an Incremental ETL Process**

Introduction to Incremental ETL  
Extracting Modified Data  
Loading Modified data

## Module 8: Enforcing Data Quality

Introduction to Data Quality  
Using Data Quality Services to Cleanse Data  
Using Data Quality Services to Match data

## Module 9: Using Master Data Services

Master Data Services Concepts  
Implementing a Master Data Services Model  
Managing Master Data  
Creating a Master Data Hub

## Module 10: Extending SQL Server Integration Services

Using Scripts in SSIS  
Using Custom Components in SSIS

## Module 11: Deploying and Configuring SSIS Packages

Overview of SSIS Deployment  
Deploying SSIS Projects  
Planning SSIS Package Execution

## Module 12: Consuming Data in a Data Warehouse

Introduction to Business Intelligence  
Introduction to Reporting  
An Introduction to Data Analysis