

# 20463: Implementing a Data Warehouse with Microsoft SQL Server 2014

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## Course Details

### Course Outline

- 1. Introduction to Data Warehousing**
  - Overview of Data Warehousing
  - Considerations for a Data Warehouse Solution
  - Lab : Exploring a Data Warehousing Solution
- 2. Data Warehouse Hardware Considerations**
  - Considerations for building a Data Warehouse
  - Data Warehouse Reference Architectures and Appliances
  - Lab : Planning Data Warehouse Infrastructure
- 3. Designing and Implementing a Data Warehouse**
  - Logical Design for a Data Warehouse
  - Physical design for a data warehouse
  - Lab : Implementing a Data Warehouse Schema
- 4. Creating an ETL Solution with SSIS**
  - Introduction to ETL with SSIS
  - Exploring Data Sources
  - Implementing Data Flow
  - Lab : Implementing Data Flow in an SSIS Package
- 5. Implementing Control Flow in an SSIS Package**
  - Introduction to Control Flow
  - Creating Dynamic Packages
  - Using Containers
  - Managing Consistency
  - Lab : Implementing Control Flow in an SSIS Package
  - Lab : Using Transactions and Checkpoints
- 6. Debugging and Troubleshooting SSIS Packages**
  - Debugging an SSIS Package
  - Logging SSIS Package Events
  - Handling Errors in an SSIS Package
  - Lab : Debugging and Troubleshooting an SSIS Package

## **7. Implementing an Incremental ETL Process**

- Introduction to Incremental ETL
- Extracting Modified Data
- Loading Modified data
- Lab : Extracting Modified Data
- Lab : Loading Incremental Changes

## **8. Enforcing Data Quality**

- Introduction to Data Quality
- Using Data Quality Services to Cleanse Data
- Using Data Quality Services to Match data
- Lab : Cleansing Data
- Lab : De-duplicating data

## **9. Using Master Data Services**

- Master Data Services Concepts
- Implementing a Master Data Services Model
- Managing Master Data
- Creating a Master Data Hub
- Lab : Implementing Master Data Services

## **10. Extending SQL Server Integration Services**

- Using Scripts in SSIS
- Using Custom Components in SSIS
- Lab : Using Custom Components and Scripts

## **11. Deploying and Configuring SSIS Packages**

- Overview of SSIS Deployment
- Deploying SSIS Projects
- Planning SSIS Package Execution
- Lab : Deploying and Configuring SSIS Packages

## **12. Consuming Data in a Data Warehouse**

- Introduction to Business Intelligence
- Introduction to Reporting
- An Introduction to Data Analysis
- Lab : Using Business Intelligence Tools