

20463D

Implementing a Data Warehouse with Microsoft SQL Server 2014

Module 1: Introduction to Data Warehousing

- Overview of Data Warehousing
- Considerations for a Data Warehouse Solution

Lab: Exploring a Data Warehousing Solution

Module 2: Planning Data Warehouse Infrastructure

- Considerations for Data Warehouse Infrastructure
- Planning Data Warehouse Hardware

Lab: Planning Data Warehouse Infrastructure

Module 3: Designing and Implementing a Data Warehouse

- Data Warehouse Design Overview
- Designing Dimension Tables
- Designing Fact Tables
- Physical Design for a Data Warehouse

Lab: Implementing a Data Warehouse

Module 4: Creating an ETL Solution with SSIS

- Introduction to ETL with SSIS
- Exploring Source Data
- Implementing Data Flow

Lab: Implementing Data Flow in an SSIS Package

Module 5: Implementing Control Flow in an SSIS Package

- Introduction to Control Flow
- Creating Dynamic Packages
- Using Containers

Lab A: Implementing Control Flow in an SSIS Package

- Managing Consistency

Lab B: Using Transactions and Checkpoints

Module 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

Module 7: Implementing a Data Extraction Solution

- Planning Data Extraction
- Extracting Modified Data

Lab: Extracting Modified Data

Module 8: Loading Data into a Data Warehouse

- Planning Data Loads
- Using SSIS for Incremental Loads
- Using Transact SQL Loading Techniques

Lab: Loading a Data Warehouse

Module 9: Enforcing Data Quality

- Introduction to Data Quality
- Using Data Quality Services to Cleanse Data

Lab A: Cleansing Data

- Using Data Quality Services to Match Data

Lab B: Deduplicating Data

Module 10: Master Data Services

- Introduction to Master Data Services
- Implementing a Master Data Services Model
- Managing Master Data
- Creating a Master Data Hub

Lab: Implementing Master Data Services

Module 11: Extending SQL Server Integration Services

- Using Scripts in SSIS
- Using Custom Components in SSIS

Lab: Using Custom Scripts

Module 12: Deploying and Configuring SSIS Packages

- Overview of SSIS Deployment
- Deploying SSIS Projects
- Planning SSIS Package Execution

Lab: Deploying and Configuring SSIS Packages**Module 13: Consuming Data in a Data Warehouse**

- Introduction to Business Intelligence
- Enterprise Business Intelligence
- Self-service BI and Big Data

Lab: Using a Data Warehouse