

## Course Details

# Course 10777A

## Implementing a Data Warehouse with Microsoft SQL Server 2012

Length: 5 Days

Published: January 14, 2013

Language(s): English

Audience(s): IT Professionals

Level: 200

Technology: Microsoft SQL Server 2012

Type: Course

Delivery Method: Instructor-led (classroom)

## Prerequisites

Before attending this course, students must have:

At least 2 years' experience of working with relational databases, including:

- Designing a normalized database.
- Creating tables and relationships.
- Querying with Transact-SQL.
- Some exposure to basic programming constructs (such as looping and branching).
- An awareness of key business priorities such as revenue, profitability, and financial accounting is desirable.

## Course Outline

### Module 1: Introduction to Data Warehousing

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

### Module 2: Data Warehouse Hardware

- 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 Source Data
- Implementing Data Flow

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

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

## Module 7: Implementing an Incremental ETL Process

- Introduction to Incremental ETL
- Extracting Modified Data
- Loading Modified Data

## Module 9: Enforcing Data Quality

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

## Module 11: Extending SQL Server Integration Services

- Using Custom Components in SSIS
- Using Scripts in SSIS

## Module 13: Consuming Data in a Data Warehouse

- Introduction to Business Intelligence
- Introduction to Reporting
- Introduction to Data Analysis

## Module 6: Debugging and Troubleshooting SSIS Packages

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

## Module 8: Incorporating Data from the Cloud into a Data Warehouse

- Overview of Cloud Data Sources
- SQL Server Database
- The Windows Azure Marketplace

## Module 10: Using Master Data Services

- Introduction to Master Data Services
- Implementing a Master Data Services Model
- Using the Master Data Services Add-in for Excel

## Module 12: Deploying and Configuring SSIS Packages

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