

Course Outline



6235- Implementing and Maintaining Microsoft SQL Server 2008 Integration Services

Duration: 3 days (18 hours)

Target Audience:

This course is intended for information technology (IT) professionals and developers who need to implement data transfer or extract, transform, and load (ETL) solutions by using Microsoft SQL Server 2008 Integration Services.

Prerequisites:

Before attending this course, students must have:

- Exposure to enterprise data import and export scenarios.
- Experience navigating the Microsoft Windows Server environment.
- Experience with Microsoft SQL Server, including:
 - SQL Server Agent.
 - SQL Server query language (SELECT, UPDATE, INSERT, and DELETE).
 - SQL Server System tables.
 - SQL Server accounts (users and permissions).

In addition, it is recommended, but not required, that students have completed:

- Course 6231: Maintaining a Microsoft SQL Server 2008 Database.
- Course 6232: Implementing a Microsoft SQL Server 2008 Database.

Topics Covered:

- Module 1: Introduction to SQL Server 2008 Integration Services
 - Overview of SQL Server Integration Services
 - Using Integration Services Tools
 - Lab : Introduction to SQL Server Integration Services
 - Using the Import and Export Wizard
 - Running an Integration Services Package
 - Import Data Using the Import and Export Wizard
 - Managing Packages

After completing this course, students will be able to:

- Describe Integration Services solutions.
- Use Integration Services tools.
- Module 2: Developing Integration Services Solutions
 - Creating an Integration Services Solution
 - Using Variables

- Building and Running a Solution
 - Lab : Developing Integration Services Solutions
 - Creating an Integration Services Project
 - Implementing a Package
 - Building and Running an Integration Services package

After completing this course, students will be able to:

- Create a SQL Server Integration Services solution.
- Use variables.
- Build and run a solution.

➤ Module 3: Implementing Control Flow

- Control Flow Tasks
- Control Flow Precedent Constraints
- Control Flow Containers
 - Lab : Implementing Control Flow
 - Creating a Simple Control Flow
 - Configuring Precedence Constraints
 - Using Containers

After completing this course, students will be able to:

- Configure control flow tasks.
- Configure control flow precedence constraints.
- Configure control flow containers.

➤ Module 4: Implementing Data Flow

- Data Flow Sources and Destinations
- Basic Data Flow Transformations
- Advanced Data Flow Transformations
- Data Flow Paths
 - Lab : Implementing Data Flow
 - Transferring Data
 - Implementing Transformations
 - Using Data Viewers
 - Configuring Error Output

After completing this course, students will be able to:

- Implement data flow sources and destinations.
- Implement basic data flow transformations.
- Implement advanced data flow transformations.
- Implement data flow paths.

➤ Module 5: Implementing Logging

- Overview of Integration Services Logging
- Using Logging
 - Lab : Implementing Logging
 - Configuring Logging
 - Implementing Custom Logging

After completing this course, students will be able to:

- Describe Integration Services logging.
- Implement Integration Services logging.

➤ Module 6: Debugging and Error Handling

- Debugging a Package
- Implementing Error Handling
 - Lab : Debugging and Error Handling
 - Debugging a Package
 - Implementing Error Handling
 - Controlling Failure Behavior

After completing this course, students will be able to:

- Debug an SSIS package.
- Implement error handling.

➤ Module 7: Implementing Checkpoints and Transactions

- Implementing Checkpoints
- Implementing Transactions
 - Lab : Implementing Checkpoints and Transactions
 - Implementing Checkpoints in a Package
 - Implementing Transactions in a Package
 - Implementing a Native Transaction

After completing this course, students will be able to:

- Implement checkpoints.
- Implement transactions.

➤ Module 8: Configuring and Deploying Packages

- Package Configurations
- Preparing and Deploying Packages
 - Lab : Configuring and Deploying Packages
 - Creating a Package Configuration
 - Preparing a Package for Deployment
 - Deploying a Package

After completing this course, students will be able to:

- Implement package configurations.
- Deploy packages.

➤ Module 9: Managing and Securing Packages

- Managing Packages
- Securing Packages
 - Lab : Managing and Securing Packages
 - Importing a Package
 - Configuring, Executing, and Monitoring a Package
 - Scheduling a Package
 - Securing a Package

After completing this course, students will be able to:

- Manage packages.
- Secure packages.