



### SQL Server Integration Services (SSIS)

This course addresses the technical skills required to Extract, Transform, and Load (ETL) data using SQL Server Integration Services. Topics include: how to create, edit, deploy, schedule, and manage Integration Services packages; configuring control flow, data flow, and event handling tasks within an Integration Services package; and implementing logging and error-handling during package execution.

#### Who should take this course?

This course is targeted to students who want to acquire technical skills to implement a Microsoft SQL Server Integration Services solution, and have experience using SQL Server and writing SQL queries such as selecting data and how to add, update, and delete data, tables, views, and indexes.

#### Course Objectives

- Describe SQL Server Integration Services and its tools.
- Create an Integration Services package.
- Implement control flow in an Integration Services package.
- Implement data flow in an Integration Services package.
- Implement logging in an Integration Services package.
- Debug and implement error handling in an Integration Services package.
- Implement checkpoints and transactions in an Integration Services package.
- Configure and deploy an Integration Services package.
- Manage and secure an Integration Services package.

#### Course Details

- Length: 24 hours
- Format: Classroom
- Prerequisites: Structured Query Language: (SQL) Level 1 and Beginning SQL Server or equivalent

*The above prerequisites are considered to be the basic skills and knowledge needed prior to taking this class. Instructors will assume your readiness for the class materials and will NOT use class time to discuss prerequisite materials.*



### Course Contents

#### **Introduction to Integration Services**

- The role that integration services plays in extracting, transforming, and loading data
- Tools that are used to build and manage Integration Services solutions

#### **Developing Integration Services Solutions**

- Development tasks involved in creating an Integration Services solution

#### **Implementing Control Flow**

- Tasks and precedence constraints that can be used to implement control flow in a package

#### **Implementing Logging**

- Using logging in an Integration Services package
- Configuring and using logging providers to generate information about package execution\

#### **Debugging and Error Handling**

- How to debug Integration Services packages using the debugging tools in Business Intelligence Development Studio.
- Implementing error-handling logic in an Integration Services package

#### **Implementing Checkpoints and Transactions**

- What checkpoints are and how to implement them
- Implementing transactional data access login in an Integration Services package

#### **Configuring, Deploying, Managing, and Securing Packages**

- Creating Package Configurations and how to deploy packages to production servers
- Package management tasks using the Integration Services management tools.
- How to secure Integration Services packages