



Microsoft SQL Server 2008[®] Integration Services

IN BRIEF

Delivery: Instructor-led course

Duration: 3 days

Class size: 10 Students Max.

Cost: \$2350 per person + GST

Inclusions: Microsoft expert instructor, comprehensive course manual, individual computer access, and fully catered lunch, morning and afternoon tea breaks.

Prerequisites:

This course does assume prior knowledge of SQL Server 2008 and the use of SQL Server Management Studio for development and administrative tasks. You should be able to create CRUD (create, retrieve, update, and delete) queries using T-SQL, understand basic relational databases design, run script files and diagnose problems that occur, and have experience building applications that access data stored in SQL Server. You must also know how to connect to an instance of SQL Server 2008 using the various connection dialog boxes in Management Studio and development tools.

Course Description

This course will enable technology professionals with little or no ETL experience to be comfortable and productive with the SSIS tools and technologies. In this course you will learn about the Business Intelligence Development Studio (BIDS) and working with Control and Data Flows to build workflows to extract, transform, and load data using a variety of data sources, transformations, and destinations. You will also become familiar with SSIS package management and package deployment along with learning to write solid code using debugging, error handling, and logging techniques.

Audience

SQL Server[®] Users.

Topics Covered

A Guided Tour of Integration Services

- Understanding Integration Services
- Exploring and Executing an Integration Services Package in BIDS
- Exploring and Executing a Package Outside of BIDS

Control Flow

- Overview of Control Flow in Integration Services
- Working with Workflow Tasks
- Precedence Constraints

Data Flows

- The Data Flow Task
- Data Viewers
- Data Flow Transformations

Variables and Configurations

- Understanding Variables
- Using Variables in Control Flow
- Using Variables in Data Flow
- Configurations
- Using Variables and Configurations between Packages

Advanced Control Flow

- Advanced Control Flow Overview
- Using Containers
- Transactions Support in Integration Services

Error Handling and Logging

- When Things Go Wrong
- Checkpoints
- Handling Errors and Debugging
- Packaging Logging
- Event Handling

Advanced Data Flow

- Synchronous and Asynchronous Transformations
- Using Advanced Transformations
- Handling Slowly Changing Dimensions

Package Deployment

- Deploying Packages
- Create a Package Deployment Utility
- Installing a Package
- Redeploying Updated Packages

Package Management

- Overview of Package Management
- Managing Integration Services Packages
- Executing Packages
- Integration Services Security

Scripting and Custom Components

- Extending Integration Services Capabilities through Code
- Scripting in Control Flows with the Script Task
- Scripting in Data Flows with the Script Component
- Custom Integration Services Components

Best Practices

- Best Practices for Using Integration Services
- Best Practices for Package Development and Design
- Data Flow Best Practices
- Deployment and Management Best Practices

Going Beyond ETL

- Using Integration Services Beyond ETL
- Migrating and Maintaining SQL Servers with Integration Services
- Working with Analysis Services
- Working with Windows Management Instrumentation