



## Delegate Pre-Requisites

Delegates should be familiar with SQL Server databases and able to write basic SQL Select statements.

## Course Duration

This is a Three Day Course

## Course Details

Courses commence at 9:30 a.m. through to 4:30 p.m.

A laptop computer is provided for each delegate attending on this packed programme to try out the tips and techniques demonstrated

All delegates will receive comprehensive Training Courseware to refer to during the course, together with a Course Attendance Certificate

## Schedule Courses

Off-site scheduled courses are available at a location near you - this course is available on our current programme - call our team for more details

## Corporate Courses

On-site Corporate courses are available - you provide the Conference Room ... we bring everything else!

## Modular Courses

Bite-sized 'modular' courses are available where you can build your own day course covering the topics that suit you - these are half day modules that you can mix and max



**FAST TRACK**  
COMPUTER TRAINING LTD



# SQL Server Integration Services

## Target Audience

This course is for people who want to be able extract, transform and load data between SQL Server and other systems. Targets and sources include CSV files, Excel spread sheets and Access databases.

## The Content

### Introduction to Integration Services

- \* Defining SQL Server Integration Services (SSIS)
- \* Exploring the need for migrating diverse data
- \* The role of Business Intelligence (BI)

### SSIS Architecture and Tools

- \* Managing heterogeneous data
- \* Leveraging the Extract, Transform and Load (ETL) capabilities of SSIS
- \* Running wizards for basic migrations
- \* Creating packages for complex tasks
- \* Illustrating SSIS architecture
- \* Distinguishing between data flow pipeline and package runtime
- \* Executing packages on the client side or hosted in the SSIS service
- \* Simplifying deployments
- \* Switching between project and package deployment modes
- \* Deploying packages to the SSISDB
- \* Running packages from SQL Server
- \* Leveraging package parameters

### Implementing Tasks and Containers

- \* Utilizing basic SSIS objects
- \* Configuring connection managers
- \* Adding data flow tasks to packages
- \* Reviewing progress with data viewers
- \* Assembling tasks to perform complex data migrations
- \* Migrating multiple files with FOREACH container
- \* Operating system-level tasks
- \* Copying, moving and deleting files
- \* Communicating with external sources

### Extending Capabilities with Scripting

- \* Writing expressions
- \* Making properties dynamic with variables
- \* Utilizing expressions in loop iterations
- \* Debugging, breakpoints and watches
- \* Accessing and controlling reports using URLs

### Transforming with the Data Flow Task

- \* Performing transforms on columns
- \* Converting and calculating columns
- \* Transforming with Character Map
- \* Profiling, combining and splitting data
- \* Merge, Union and Conditional Split
- \* Multicasting and converting data
- \* Aggregate, sort, audit and look up data
- \* Redirecting error rows
- \* Performing database operations
- \* Executing a SQL task
- \* Bulk inserting data from text files

### Error Handling, Logging and Transactions

- \* Organizing package workflow
- \* Defining success, failure, completion and expression precedence constraints
- \* Handling events and event bubbling

**Call our team 01527 836840**

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