

# Introduction to SSIS

## 2 day training course



## Course contents

This course will cover the following topics. Those marked with (\*) will be covered if time allows.

### SSIS basics

- Solutions and projects
- Basic packages
- Control and data flow tasks
- The 32-bit question

### Data flow tasks

- Connection managers
- Sources and destinations

### Using different data connections

- SQL Server (OLEDB)
- Connecting to Excel workbooks
- New and existing flat files
- Multiple flat files

### Data viewers

- Attaching data viewers
- Data buffers

### Basic data transforms

- Sorting and aggregating
- Sampling data
- Dividing and uniting data

### Data conversion transforms

- The SSIS data types
- Unicode and ASCII data
- Type cast functions

### Variables and expressions

- The Row Count transform
- User and system variables
- Expression tasks

### Debugging

- Setting breakpoints
- The Locals window

### Derived column transforms

- SSIS expressions
- Using SSIS functions
- Using the conditional operator

### Handling errors

- Redirecting and ignoring errors
- Truncation errors

### Conditional split transforms

- Splitting data by expression
- Using comparison operators
- Syntax for multiple conditions

### Lookup transforms

- Redirecting unmatched rows
- Choosing a cache mode
- Setting unmatched rows to Unknown
- Adding unmatched rows automatically

### File system tasks

- Working with files
- Working with folders

### Looping over files

- The file name variable
- Configuring the loop
- Expression constraints

### Importing multiple files

- Using expressions for connections
- Dynamic connections within loops

### Looping over rows (\*)

- Object variables
- Reading in data
- Looping over ADO rows
- Dynamic connection strings

### Using parameter placeholders

- Using the ? Symbol
- Mapping parameters

### Merge joins

- How they work
- Comparing two data sets

### Basic deployment

- Project-level deployment
- Creating a catalog
- Deploying and viewing in SSMS

### Using parameters (\*)

- Package and project parameters
- Using parameters in expressions
- Deploying parameters
- Why to avoid environments

## Pre-requisites for Introduction to SSIS course

You should have a basic knowledge of SQL Server to attend this course (you don't necessarily need to know how to write a **SELECT** statement, but you should have seen one before).

### Prices

Venue	Address	Price per place
<a href="#">London</a>	Landmark, 99 Bishopsgate, London EC2M 3XD	£1,425 per person + VAT
<a href="#">Manchester</a>	Holiday Inn, 25 Aytoun Street, Manchester M1 3AE	£1,050 per person + VAT
<a href="#">Online</a>	Your home or office!	£875 per person + VAT

### Scheduled Dates

Dates	Venue	Times	Price per place	Booking
Wed/Thu 08-09 July 2026	Online	09:30-16:30	£875 + VAT	<a href="#">Book this</a>
Tue/Wed 11-12 August 2026	Online	09:30-16:30	£875 + VAT	<a href="#">Book this</a>
Thu/Fri 10-11 September 2026	Online	09:30-16:30	£875 + VAT	<a href="#">Book this</a>
Mon/Tue 12-13 October 2026	Online	09:30-16:30	£875 + VAT	<a href="#">Book this</a>
Thu/Fri 12-13 November 2026	Online	09:30-16:30	£875 + VAT	<a href="#">Book this</a>

If you can't see the dates that you want, ask us about organizing a customized course at your office (we'll provide and set up the computers), or else an online course tailored to your needs.