



# Fast track SSIS

## 3 day training course



### Course contents

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

#### From our Introduction to SSIS course

##### 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



## From our Advanced SSIS course

### **A quick C# primer**

- Writing methods
- Using variables
- Using namespaces

### **Script tasks**

- Message boxes
- Setting return status

### **Variables in script**

- Passing variables in/out
- Referencing in code

### **Script components**

- Input and output flows
- Manipulating values in script

### **Sending mail (\*)**

- Limitations of the Send Mail task
- The System.Mail namespace
- Sending emails in code

### **Accessing file attributes (\*)**

- FileInfo and DirectoryInfo
- Accessing file properties
- Filtering by file date/time

### **Logging and auditing (\*)**

- Logging to text files
- Logging to SQL Server
- Audit transforms

### **Events**

- Creating an event
- Pre- and post-execute events
- Error-handling using events