



This course combines topics from the following courses (any items marked with a \* will be covered if time allows).

Topics taken 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



Topics taken from our **ADVANCED SSIS** course

<p><b>A quick C# primer</b></p> <ul style="list-style-type: none"><li>• Writing methods</li><li>• Using variables</li><li>• Using namespaces</li></ul> <p><b>Script tasks</b></p> <ul style="list-style-type: none"><li>• Message boxes</li><li>• Setting return status</li></ul> <p><b>Variables in script</b></p> <ul style="list-style-type: none"><li>• Passing variables in/out</li><li>• Referencing in code</li></ul>	<p><b>Script components</b></p> <ul style="list-style-type: none"><li>• Input and output flows</li><li>• Manipulating values in script</li></ul> <p><b>Sending mail (*)</b></p> <ul style="list-style-type: none"><li>• Limitations of the Send Mail task</li><li>• The System.Mail namespace</li><li>• Sending emails in code</li></ul> <p><b>Accessing file attributes (*)</b></p> <ul style="list-style-type: none"><li>• FileInfo and DirectoryInfo</li><li>• Accessing file properties</li><li>• Filtering by file date/time</li></ul>	<p><b>Logging and auditing (*)</b></p> <ul style="list-style-type: none"><li>• Logging to text files</li><li>• Logging to SQL Server</li><li>• Audit transforms</li></ul> <p><b>Events</b></p> <ul style="list-style-type: none"><li>• Creating an event</li><li>• Pre- and post-execute events</li><li>• Error-handling using events</li></ul>
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Maximum 6 people per course. Scheduled classroom courses include lunch at a local restaurant; you can see how our online training works [here](#). For more information, see <https://www.wiseowl.co.uk/>.