



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>A quick C# primer</p> <ul style="list-style-type: none">• Writing methods• Using variables• Using namespaces <p>Script tasks</p> <ul style="list-style-type: none">• Message boxes• Setting return status <p>Variables in script</p> <ul style="list-style-type: none">• Passing variables in/out• Referencing in code	<p>Script components</p> <ul style="list-style-type: none">• Input and output flows• Manipulating values in script <p>Sending mail (*)</p> <ul style="list-style-type: none">• Limitations of the Send Mail task• The System.Mail namespace• Sending emails in code <p>Accessing file attributes (*)</p> <ul style="list-style-type: none">• FileInfo and DirectoryInfo• Accessing file properties• Filtering by file date/time	<p>Logging and auditing (*)</p> <ul style="list-style-type: none">• Logging to text files• Logging to SQL Server• Audit transforms <p>Events</p> <ul style="list-style-type: none">• Creating an event• Pre- and post-execute events• Error-handling using events
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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/>.