Fast track SSIS



Classroom or online training course 3 day course outline

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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



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Topics taken 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

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/.