

# Advanced SSIS



## COURSE TOPICS

- Loading a Dimension Table
- Loading a Fact Table
- Creating an Incremental Load Pattern
- Performance Tuning SSIS
- Scaling Out SSIS
- Restartability Patterns in SSIS
- Scripting in SSIS
- Data De-Duplication
- Advanced Patterns
- Upgrading to SSIS 2012/2014 and the Project Deployment Model
- Integrating Data Quality Services in SSIS
- Creating an Advanced Package Pattern
- SSAS Integration

## COURSE OVERVIEW

During this online course, you'll learn how to use SSIS in your enterprise to solve common extract, transform and load (ETL) challenges. This class assumes you know the basics of SSIS and takes you from the novice level to a more effective, advanced ETL developer. Much of this class focuses on implementing common real-world SSIS patterns taught by experts of SSIS. Be prepared for a very in-depth training in SSIS that gets advanced in many areas.

### Course Goals

- Learn how to performance tune SSIS
- Learn how to extend SSIS using script tasks and components
- Learn how to integrate SSIS with SSAS and DQS
- Learn data warehouse loading patterns

## PREREQUISITES

The target audience of this class is developers, architects or IT professionals who have basic SSIS skills. This class assumes you know the basics of SSIS and takes you from the novice level to a more effective, advanced ETL developer. We recommend our Introduction to SSIS course for those new to SSIS. Having a basic understanding of VB will help but is not required for this course.

## SYSTEM REQUIREMENTS

- Microsoft Windows XP Professional, Microsoft Windows Server 2003, Microsoft Vista, Windows 7 or Windows 8
- 1 GHz or faster CPU
- 1 GB of available RAM (recommended 2 GB)
- 20 GB of free hard drive space
- SQL Server Developer, Standard or Enterprise Edition 2008/2008R2/2012/2014 (Many features discussed are Enterprise/Developer edition only)
- SQL Server Database Engine
- SQL Server Integration Services
- SQL Server Analysis Services (Optional)
- SQL Server Data Tools (SQL 2012/2014) or Business Intelligence Development Studio (SQL 2008/2008R2)
- SQL Server Management Studio
- Data Quality Services (SQL 2012/2014 only)
- Data Quality Client (SQL 2012/2014 only)
- AdventureWorks2008R2 or AdventureWorks2012 databases installed on the instance
- AdventureWorksDW2008R2 or AdventureWorksDW2012 databases installed on the instance
- HigherEd and HigherEdDW databases should be restored on the instance

