

Course 516: Microsoft SQL Server 2005 Integration Services (SSIS) (4 Days)

Course Description...

This course focuses on the integration part of Business Intelligence by providing instruction on the skills to design and develop efficient and manageable extraction, transformation, and loading (ETL) processes using SQL Server 2005 Integration Services (SSIS). Upon completion of this course, students will be able to successfully design, build, deploy, and operate ETL processes. Students will also acquire the skills to manage and maintain data warehouse ETL systems and general data integration requirements.

Learning Objectives...

- Migrating SQL Server 2000 DTS packages
- Building SSIS packages
- Configuring data sources
- Automate complex multi-step tasks
- Understanding package containers
- Implementing basic and advanced data transformations
- Configuring dynamic packages
- Executing packages from command line utilities
- Configuring data flow tasks
- Configuring SSIS security and storage
- Deploying SSIS packages

Who Should Attend...

This course is for anyone who needs to understand the fundamentals of data extraction, transformation, and loading (ETL) using SQL Server Integration Services. You will learn how to develop the methodology and practices of a tuned ETL solution.

Course Prerequisites...

You should have a working knowledge of database architecture and ETL workflows. You should also have a working knowledge of Visual Studio.

See next page for a detailed course outline...



Course Outline...

Chapter 1: Welcome to SSIS

- Getting Started With SSIS
- DTS Support within SSIS
- Upgrade Advisor DTS support
- Migration Functionality
- Migration challenges and caveats
- Building a SSIS Package

Chapter 2: The Development Environment

- Working with SSIS Projects
- Properties Windows and viewers
- Data Sources
- Data Source Views
- Package Connections
- SSIS Toolbox
- Debugging Windows
- Diagnostics Windows

Chapter 3: SSIS Architecture and Basic Transformations

- Management Tasks
- Standard Tasks
- Package variables
- Scripting Tasks
- Connection Managers
- Data Flow vs. Work Flow
- Sequence Container
- Looping Containers
- Standard and Expression based Constraints

Chapter 4: Data Flow Task

- Data Flow Terms
- Data Flow Properties
- Flow Control Transforms
- Data Manipulation Transforms
- Script Component

Chapter 5: Configuring Your SSIS Environment

- SSIS Configuration Types
- SSIS Logging
- Auditing with Event Handlers
- Built-in checkpoints
- Managing RDBMS transactions



- Rollback considerations
- Integrating Checkpoints with Transactions

Chapter 6: SSIS Deployment

- SSIS Management features
- SSIS Deployment Wizard
- SQL Server storage
- Source Control
- Package Security
- Scheduling Packages
- DTEXec command line execution

Please contact your ROI representative to discuss course tailoring!!!