



55120: Quick Microsoft SQL Server 2012-2014 Integration Services

Course ID #: 7000-479-ZZ-Z

Hours: 14

Course Content

Course Description:

This two-day instructor-led course is intended for those that are new to SQL Server Integration Services or are interested in learning the features available. This course uses an instructor-led topic explanation, instructor performing detailed demonstrations, then the student performing exercises to duplicate what the instructor demonstrated. This style of training is a combination of traditional classroom training and mentored learning. Additionally, videos of the demonstrations performed by the course author are included with the course as a take-away. The course completes with additional scenario-based labs to reinforce the course content.

At Course Completion:

Students will be able to:

- Understand packages.
- Manage with Control Flow.
- Move data with Data Flow.
- Understand variables.
- Understand parameters.
- Utilize the Import/Export Wizard.
- Work in the Explore window.
- Create SQL Server Integration Services packages.
- Utilize Connection Managers.
- Code the Script Task.
- Utilize Looping and Sequence Tasks.
- Utilize Data Preparation Tasks.
- Load data with the Analysis Services Tasks.
- Use the Workflow Tasks.
- Manage SQL with the SQL Tasks.

Prerequisites:

None

Target Student:

This course is intended for IT Professionals.



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Topics:

Module 1: Course Overview

- Introduction
- Course Materials
- Facilities
- Prerequisites
- What We'll Be Discussing

Lab : Course Overview

Module 2: SQL Server Integration Services

Architecture

- Version Changes of SSIS From 2008-2012
- The SQL Server Integration Service
- Understanding Packages
- Managing with Control Flow
- Moving Data with Data Flow
- Understanding Variables
- Understanding Parameters

Lab : SQL Server Integration Services

Architecture

Module 3: SQL Server Integration Services Tools

- Utilizing the Import/Export Wizard
- Working in the Explore Window
- Creating SQL Server Integration Services Packages
- Utilizing Connection Managers

Lab : SQL Server Integration Services Tools

Module 4: SQL Server Integration Services Tasks

- Coding the Script Task
- Looping and Sequence Tasks
- Utilizing Data Preparation Tasks
- Data Loading with the Analysis Services Tasks
- Using the Workflow Tasks
- Managing SQL with the SQL Tasks
- Administration of SQL Using the SQL Management Objects Tasks

Lab : SQL Server Integration Services Tasks

Module 5: Data Flow

- Optimizing Sources for Extraction
- Using Destinations and Understanding choices
- Examining the Transformation and Other Tasks (about 25 of them)

Lab : Data Flow

Module 6: Variables, Parameters and Expressions

- Creating Dynamic Packages
- Utilizing SQL Server Integration Services Data Typing
- Define and Use Variables and Parameters
- Using Expressions in Packages

Lab : Variables, Parameters and Expressions

Module 7: Containers

- Overview of Containers
- Utilizing Sequences in a Container
- Utilizing Container Loops

Lab : Containers



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Module 8: Performing Joins

- Performing Joins with the Lookup Transformation
- Performing Joins with the Merge Transformation
- Utilizing Cache Modes in Joins

Lab : Performing Joins

Module 12: Installing, Upgrading, and Migrating to Windows 7

- Scenario 1
- Scenario 2
- Scenario 3

Lab : Concept Reinforcement Scenarios

Module 9: Tuning SQL Server Integration

Services Packages

- Examining the SSIS Engine
- Using the Best Practices

Lab : Tuning SQL Server Integration Services Packages

Module 10: Debugging SQL Server Integration

Services Packages

- Designing to Troubleshoot: Using Precedence Constraints
- Working with Advanced Logging and Reporting
- Handling Errors

Lab : Debugging SQL Server Integration Services Packages

Module 11: Common SQL Server Integration

Services Design Patterns

- Choosing the Script Task or Script Component
- Working with XML
- Using Package Hierarchies: Parent Child
- Understanding Deployment Strategies

Lab : Common SQL Server Integration Services Design Patterns