55321 SQL Server Integration Services

Category: AI, Data & Analytics | **Vendor:** Microsoft

Duration: 40.00 hours (5 days) **32.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

SQL Server Integration Services is the Community Courseware version of 20767CC Implementing a SQL Data Warehouse. This five-day instructor-led course is intended for IT professionals who need to learn how to use SSIS to build, deploy, maintain, and secure Integration Services projects and packages, and to use SSIS to extract, transform, and load data to and from SQL Server. This course is similar to the retired Course 20767-C: Implementing a SQL Data Warehouse but focuses more on building packages, rather than the entire data warehouse design and implementation.

About This Course

SQL Server Integration Services is the Community Courseware version of 20767CC Implementing a SQL Data Warehouse. This five-day instructor-led course is intended for IT professionals who need to learn how to use SSIS to build, deploy, maintain, and secure Integration Services projects and packages, and to use SSIS to extract, transform, and load data to and from SQL Server. This course is similar to the retired Course 20767-C: Implementing a SQL Data Warehouse but focuses more on building packages, rather than the entire data warehouse design and implementation.

Who Should Attend

The primary audience for this course is database professionals who need to fulfil a Business Intelligence Developer role. They will need to focus on hands-on work creating BI solutions including Data Warehouse implementation, ETL, and data cleansing.

Prerequisites & Entry Requirements

General Prerequisites:

- Working knowledge of T-SQL and SQL Server Agent jobs is helpful, but not required.
- Basic knowledge of the Microsoft Windows operating system and its core functionality.
- Working knowledge of relational databases.
- Some experience with database design.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

Create sophisticated SSIS packages for extracting, transforming, and loading data Use containers to efficiently control repetitive tasks and transactions Configure packages to dynamically adapt to environment changes Use Data Quality Services to cleanse data Successfully troubleshoot packages Create and Manage the SSIS Catalog Deploy, configure, and schedule packages Secure the SSIS Catalog

Detailed Course Outline

1 - SSIS Overview

- Import/Export Wizard
- Exporting Data with the Wizard
- Common Import Concerns
- Quality Checking Imported/Exported Data

2 - Working with Solutions and Projects

- Working with SQL Server Data Tools
- Understanding Solutions and Projects
- Working with the Visual Studio Interface

3 - Basic Control Flow

- Working with Tasks
- Understanding Precedence Constraints
- Annotating Packages
- Grouping Tasks
- Package and Task Properties
- Connection Managers
- Favorite Tasks

4 - Common Tasks

- Analysis Services Processing
- Data Profiling Task
- Execute Package Task
- Execute Process Task
- Expression Task
- File System Task
- FTP Task
- Hadoop Task
- Script Task Introduction
- Send Mail Task
- Web Service Task
- XML Task

5 - Data Flow Sources and Destinations

- The Data Flow Task
- The Data Flow SSIS Toolbox
- Working with Data Sources
- SSIS Data Sources
- Working with Data Destinations
- SSIS Data Destinations

6 - Data Flow Transformations

- Transformations
- Configuring Transformations

7 - Making Packages Dynamic

- Features for Making Packages Dynamic
- Package Parameters
- Project Parameters
- Variables
- SQL Parameters
- Expressions in Tasks
- Expressions in Connection Managers
- After Deployment
- How It All Fits Together

8 - Containers

- Sequence Containers
- For Loop Containers
- Foreach Loop Containers

9 - Troubleshooting and Package Reliability

- Understanding MaximumErrorCount
- Breakpoints
- Redirecting Error Rows
- Logging
- Event Handlers
- Using Checkpoints
- Transactions

10 - Deploying to the SSIS Catalog

- The SSIS Catalog
- Deploying Projects
- Working with Environments
- Executing Packages in SSMS
- Executing Packages from the Command Line
- Deployment Model Differences

11 - Installing and Administering SSIS

- Installing SSIS
- Upgrading SSIS
- Managing the SSIS Catalog
- Viewing Built-in SSIS Reports
- Managing SSIS Logging and Operation Histories
- Automating Package Execution

12 - Securing the SSIS Catalog

- Principals
- Securables
- Grantable Permissions
- Granting Permissions
- Configuring Proxy Accounts

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Module 1: SSIS Overview

- Import/Export Wizard and Exporting Data
- Common Import Concerns and Quality Checking Data

Module 2: Working with Solutions and Projects

- SQL Server Data Tools Overview
- Understanding Solutions, Projects, and Visual Studio Interface

Module 3: Basic Control Flow

- Working with Tasks, Precedence Constraints, and Connection Managers
- Annotating, Grouping, and Managing Package/Task Properties
- Favorite Tasks for Common Scenarios

Module 4: Common Tasks

- Analysis Services Processing and Data Profiling
- Execute Package/Process Tasks and Expression Tasks
- File System, FTP, and Hadoop Tasks
- Script Task Basics, Send Mail, Web Service, and XML Tasks

Module 5: Data Flow Sources, Destinations, and Transformations

- Data Flow Task and SSIS Toolbox Overview
- Working with Data Sources and Destinations (Databases, Flat Files, Excel)
- Configuring Transformations to cleanse and shape data

Module 6: Making Packages Dynamic

- Parameters (Package, Project, SQL) and Variables
- Using Expressions in Tasks and Connection Managers
- Post-Deployment Dynamic Configurations

Module 7: Containers

- Sequence Containers, For Loops, and Foreach Loops

Module 8: Troubleshooting and Package Reliability

- Error Handling: Redirecting Rows, Logging, Event Handlers
- Using Breakpoints, Checkpoints, and Transactions
- Managing MaximumErrorCount for Stability

Module 9: Deploying to the SSIS Catalog

- Understanding the SSIS Catalog and Deployment Models
- Deploying Projects, Managing Environments, and Executing Packages (SSMS, Command Line)

Module 10: Installing and Administering SSIS

- Installing and Upgrading SSIS
- Managing the Catalog, Built-in Reports, and Operation Histories
- Automating Package Execution

Module 11: Securing the SSIS Catalog

- Principals, Securables, and Permissions Management
- Granting Permissions and Configuring Proxy Accounts

Upcoming Schedule

Available training dates for 55321 SQL Server Integration Services:

Start Date	End Date	Location	Delivery	Price
25 Jan 2027	29 Jan 2027	Online	Virtual	€2,995.00

Additional Course Details

Nexus Humans 55321 SQL Server Integration Services training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the 55321 SQL Server Integration Services course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for 55321 SQL Server Integration Services?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 5-day 55321 SQL Server Integration Services course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the 55321 SQL Server Integration Services training?

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for 55321 SQL Server Integration Services?

Yes, we provide corporate training, dedicated training, and closed classes for 55321 SQL Server Integration Services. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: Why choose Nexus Human for 55321 SQL Server Integration Services?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your 55321 SQL Server Integration Services training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

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