



COURSE SYLLABUS

SQL Server Integration Services

Build, deploy and maintain SSIS packages that extract, transform and load data, using SQL Server 2025 Integration Services and Visual Studio 2022.

\$3,000 per person

30 course hours (on-demand video and labs) plus 3 hours of coaching

On-demand asynchronous training with online support, plus 3 hours of coaching.

SQL Server Integration Services

Build, deploy and maintain SSIS packages that extract, transform and load data, using SQL Server 2025 Integration Services and Visual Studio 2022.

Credential type	Certificate, issued by We Can Code IT
Clock hours	33 (30 course hours plus 3 hours of coaching)
Price	\$3,000 per person
Time	30 course hours (on-demand video and labs) plus 3 hours of coaching
Delivery	On-demand asynchronous training with online support, plus 3 hours of coaching.
Credential	Certificate of completion from We Can Code IT
Who it is for	This course is for database professionals, business intelligence developers and data engineers who move data between systems. It also suits SQL developers who have been asked to take over existing SSIS packages.
Prerequisites	Working Transact-SQL knowledge and familiarity with relational databases; Basic Windows skills; SQL Server Agent experience is helpful but not required
Requirements	Requires a Windows PC; 64-bit Windows; SQL Server Management Studio 21 and SSIS Projects 2022 are 64-bit only; Visual Studio 2022 with the SQL Server Integration Services Projects 2022 extension; SQL Server 2025 Developer edition with Integration Services, which Microsoft provides free for development and training; SQL Server Management Studio 21 or later

About this course

This course teaches you to build and run SQL Server Integration Services (SSIS) packages that move and reshape data between systems. You learn on the current version, SQL Server 2025 Integration Services, with Visual Studio 2022. You design control flow and data flow, apply transformations, make packages dynamic with parameters and loops, handle errors and logging, and deploy and schedule packages from the SSIS Catalog, then finish with a complete extract, transform and load project.

What you will be able to do

- You will be able to create an SSIS project in Visual Studio and build control flow with tasks, precedence constraints and connection managers.
- You will be able to load data from flat file, Excel and SQL Server sources into SQL Server destinations.
- You will be able to clean and reshape data with Derived Column, Data Conversion, Lookup, Conditional Split and Aggregate transformations.

- You will be able to make packages dynamic with parameters, variables, expressions and Foreach Loop containers.
- You will be able to troubleshoot packages with data viewers, logging, error outputs and event handlers.
- You will be able to deploy packages to the SSIS Catalog, configure environments and schedule them with SQL Server Agent.

Syllabus

Module	Hours
1. SSIS overview and your first project What SSIS does, Import and Export Wizard, Solutions and projects in Visual Studio, Changes in SSIS for SQL Server 2025. Lab: You set up Visual Studio with the SSIS Projects extension, move a table with the Import and Export Wizard and then rebuild the same load as a package.	3 h
2. Control flow Tasks, Precedence constraints, Connection managers, Execute SQL task, File System task. Lab: You build a package that archives incoming files, truncates a staging table and runs only the next step when the previous one succeeds.	4 h
3. Data flow sources and destinations Flat file sources, Excel sources, SQL Server sources and destinations, ADO.NET connection manager. Lab: You load customer data from a CSV file and an Excel workbook into SQL Server staging tables.	3.5 h
4. Data flow transformations Derived Column, Data Conversion, Lookup, Conditional Split, Aggregate, Handling bad rows. Lab: You clean and standardize the staged customer data, match it to existing records with Lookup and send rows that fail checks to a reject table.	5 h
5. Dynamic packages and containers Parameters, Variables, Expressions, Sequence containers, Foreach Loop containers. Lab: You change the load so it processes every file in a folder and takes its folder path and server name from parameters.	4 h
6. Troubleshooting and package reliability Data viewers, Logging, Error outputs, Event handlers. Lab: You find and fix planted errors in a broken package and add logging and an event handler that records each failure.	3.5 h
7. Deploying and scheduling Deploying to the SSIS Catalog, Environments, Running packages from the Catalog, Scheduling with SQL Server Agent. Lab: You deploy your project to the SSIS Catalog, set up test and production environments and schedule the load with a SQL Server Agent job.	4 h

8. End-to-end ETL project

3 h

Requirements to package design, Extract, transform and load, Error handling and logging, Deployment and scheduling.

Lab: You build, deploy and schedule a complete package from a short specification that loads sales files into a reporting table and handles bad rows.

Coaching sessions

3 h

3 hours of coaching. One-on-one or small-group coaching, scheduled with your coach.

Live online or in-person sessions are available for an additional fee. Email admissions@wecancodeit.org for details.

Provider

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