



### Key Data

**Duration:** One Week

**Format:** Instructor-Led

**Certification Exams:** 70-448

**Duration:** 1 Week

**Fees:** \$765 (USD)

**Location:** Bellevue, WA

Refer <http://sqloperations.com>

For registration information

### Contact details:

**Email:**  
[Training@sqloperations.com](mailto:Training@sqloperations.com)

**Phone:** 425-208-2864

This course syllabus should be used to determine whether the course is appropriate for the students, based on their current skills and technical training needs.

Course content, prices, and availability are subject to change without notice.

# Implementing and Maintaining Microsoft SQL Server 2008 Integration Services

Elements of this syllabus are subject to change.

This one week instructor-led course teaches students how to implement an Integration Services solution in an organization. The course discusses how to develop, deploy, and manage Integration Services packages.

### Audience

This course is intended for information technology (IT) professionals and developers who need to implement data transfer or extract, transform, and load (ETL) solutions by using Microsoft SQL Server 2008 Integration Services.

### At Course Completion

After completing this course, students will be able to:

- Describe SQL Server Integration Services and its tools.
- Create an Integration Services package.
- Implement control flow in an Integration Services package.
- Implement data flow in an Integration Services package.
- Implement logging in an Integration Services package.
- Debug and implement error handling in an Integration Services package.
- Implement checkpoints and transactions in an Integration Services package.
- Deploy an Integration Services package.
- Manage and secure an Integration Services package.

### Module 1: Introduction to SQL Server 2008 Integration Services

The students will be introduced to the role that Integration Services plays in extracting, transforming, and loading data. The students will also be introduced to the tools that are used to build and manage Integration Services solutions.

| Lessons   |
|---|
| <ul style="list-style-type: none"> <li>Lesson 1: Overview of SQL Server Integration Services</li> <li>Lesson 2: Using Integration Services Tools</li> </ul>   |
| Lab: Introduction to SQL Server Integration Services  |
| <ul style="list-style-type: none"> <li>Exercise 1: Using the Import and Export Wizard</li> <li>Exercise 2: Running an Integration Services Package</li> </ul> |

After completing this module, students will be able to:

- Describe Integration Services solutions
- Use Integration Services tools

### Module 2: Developing Integration Services Solutions

The students will be introduced to the development tasks that are involved in creating an Integration Services package.

| Lessons   |
|---|
| <ul style="list-style-type: none"> <li>Lesson 1: Creating an Integration Services Solution</li> <li>Lesson 2: Using Variables</li> <li>Lesson 3: Building and Running a Solution</li> </ul> |

Please Contact: [HTTP://SQLOperations.com](http://SQLOperations.com) for registration information

Email: [Training@sqloperations.com](mailto:Training@sqloperations.com)

Phone: 425-208-2864

Duration: 1 Week

Fees: \$765 (USD)

Location: Bellevue, WA

Registration Link:

<http://sqloperations.com>

Contact: 425-208-2864



## Course Outline • Implementing and Maintaining Microsoft SQL Server 2008 Integration Services

### Lab: Developing Integration Services Solutions

- *Exercise 1: Creating an Integration Services Project*
- *Exercise 2: Implementing a Package*
- *Exercise 3: Building and Running an Integration Services package*

After completing this module, students will be able to:

- Create a SQL Server Integration Services solution.
- Use variables.
- Build and run a solution.

### Module 3: Implementing Control Flow

The students will be introduced to the tasks and precedence constraints that can be used to implement control flow in an Integration Services package.

#### Lessons

- *Lesson 1: Control Flow Tasks*
- *Lesson 2: Control Flow Precedent Constraints*
- *Lesson 3: Control Flow Containers*

#### Lab: Implementing Control Flow

- *Exercise 1: Creating a Simple Control Flow*
- *Exercise 2: Configuring Precedence Constraints*
- *Exercise 3: Using Containers*

After completing this module, students will be able to:

- Configure control flow tasks.
- Configure control flow precedence constraints.
- Configure control flow containers.

### Module 4: Implementing Data Flow

The students will be introduced to the data flow sources, transformations, and destinations that can be used to implement a data flow task in an Integration Services control flow. It also explains how to use data flow paths to direct valid and invalid rows through the data flow.

#### Lessons

- *Lesson 1: Data Flow Sources and Destinations*
- *Lesson 2: Basic Data Flow Transformations*
- *Lesson 3: Advanced Data Flow Transformations*
- *Lesson 4: Data Flow Paths*

#### Lab: Implementing Data Flow

- *Exercise 1: Transferring Data*
- *Exercise 2: Implementing Transformations*
- *Exercise 3: Using Data Viewers*
- *Exercise 4: Configuring Error Output*

After completing this module, students will be able to:

- Implement data flow sources and destinations.
- Implement basic data flow transformations.
- Implement advanced data flow transformations.
- Implement data flow paths.

### Module 5: Implementing Logging

Please Contact: [HTTP://SQLOperations.com](http://SQLOperations.com) for registration information

Email: [Training@sqloperations.com](mailto:Training@sqloperations.com)

Phone: 425-208-2864

Duration: 1 Week  
Fees: \$765 (USD)  
Location: Bellevue, WA

Registration Link:  
<http://sqloperations.com>

Contact: 425-208-2864



## Course Outline • Implementing and Maintaining Microsoft SQL Server 2008 Integration Services

The students will be introduced to how to use logging in an Integration Services package, and explained how to configure and use logging providers to generate information about a package's execution.

### Lessons

- *Lesson 1: Overview of Integration Services Logging*
- *Lesson 2: Enabling and Configuring Logging*

### Lab: Implementing Logging

- *Exercise 1: Configuring Logging*
- *Exercise 2: Implementing Custom Logging*

After completing this module, students will be able to:

- Describe Integration Services logging.
- Implement Integration Services logging.

## Module 6: Debugging and Error Handling

The students will be introduced to how to debug Integration Services packages by using the debugging tools in Business Intelligence Development Studio. It then explains how to implement error-handling logic in an Integration Services package.

### Lessons

- *Lesson 1: Debugging a Package*
- *Lesson 2: Implementing Error Handling*

### Lab: Debugging and Error Handling

- *Exercise 1: Debugging a Package*
- *Exercise 2: Implementing Error Handling*
- *Exercise 3: Controlling Failure Behavior*

After completing this module, students will be able to:

- Debug an SSIS package.
- Implement error handling.

## Module 7: Implementing Checkpoints and Transactions

The students will be introduced to what checkpoints are and how to implement them. It then discusses transactions, and describes how to implement transactional data access logic in an Integration Services package.

### Lessons

- *Lesson 1: Implementing Checkpoints*
- *Lesson 2: Implementing Transactions*

### Lab: Implementing Checkpoints and Transactions

- *Exercise 1: Implementing Checkpoints in a Package*
- *Exercise 2: Implementing Transactions in a Package*
- *Exercise 3: Implementing a Native Transaction*

After completing this module, students will be able to:

- Implement checkpoints.
- Implement transactions.

## Module 8: Configuring and Deploying Packages

Please Contact: [HTTP://SQLOperations.com](http://SQLOperations.com) for registration information

Email: [Training@sqloperations.com](mailto:Training@sqloperations.com)

Phone: 425-208-2864

Duration: 1 Week  
Fees: \$765 (USD)  
Location: Bellevue, WA

Registration Link:  
<http://sqloperations.com>

Contact: 425-208-2864



## Course Outline • Implementing and Maintaining Microsoft SQL Server 2008 Integration Services

The students will be introduced to how to create Package Configurations and how to deploy Integration Services packages to production servers.

|  |
|--|
| <b>Lessons</b>   |
| <ul style="list-style-type: none"><li>▪ <i>Lesson 1: Package Configurations</i></li><li>▪ <i>Lesson 2: Deploying Packages</i></li></ul>  |
| <b>Lab: Configuring and Deploying Packages</b>   |
| <ul style="list-style-type: none"><li>▪ <i>Exercise 1: Creating a Package Configuration</i></li><li>▪ <i>Exercise 2: Preparing a Package for Deployment</i></li><li>▪ <i>Exercise 3: Deploying a Package</i></li></ul> |

After completing this module, students will be able to:

- Implement package configurations.
- Deploy packages.

## Module 9: Managing and Securing Packages

The students will be introduced to the management tasks that relate to Integration Services packages and explained how to perform those tasks by using the Integration Services management tools. It also describes how to secure Integration Services packages.

|  |
|--|
| <b>Lessons</b>   |
| <ul style="list-style-type: none"><li>▪ <i>Lesson 1: Managing Packages</i></li><li>▪ <i>Lesson 2: Securing Packages</i></li></ul>  |
| <b>Lab: Managing and Securing Packages</b>   |
| <ul style="list-style-type: none"><li>▪ <i>Exercise 1: Importing a Package</i></li><li>▪ <i>Exercise 2: Configuring and Monitoring a Package</i></li><li>▪ <i>Exercise 3: Scheduling a Package</i></li><li>▪ <i>Exercise 4: Securing a Package</i></li></ul> |

After completing this module, students will be able to:

- Manage packages.
- Secure packages.

Please Contact: [HTTP://SQLOperations.com](http://SQLOperations.com) for registration information

Email: [Training@sqloperations.com](mailto:Training@sqloperations.com)

Phone: 425-208-2864