



Software Skills Training, Inc.

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# SQL Server 2012 Reporting Services

**Duration:** 3 Days

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**US Price:** \$1795

**UK Price:** £1,295 *\*Prices are subject to VAT*

**CA Price:** CDN\$2,575 *\*Prices are subject to GST/HST*

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**Discounts:** We offer multiple discount options. [Click here](#) for more info.

**Delivery Options:** Attend face-to-face in the classroom, [remote-live](#) or [on-demand streaming](#).

## Course Description

This course introduces Microsoft's SQL Server Reporting Services 2012 (SSRS) utility. It begins with a discussion of the Reporting Services architecture and how to set up Reporting Services servers. Students will install and configure Reporting Services, and perform hands-on exercises where they create various types of reports, including basic table-based reports, parameterized reports, drilldown reports, linked reports, sub-reports, matrix reports (pivot tables), free-form reports and reports with charts and gauges. Students learn how to group data and add subtotals and totals to reports, as well as how to add custom calculations using the built-in functions or using custom functions written in .NET. Also demonstrated are all of the data sources for reports that Reporting Services supports including: SQL Server databases, Access databases, XML files, Oracle databases, data warehouses and Analysis Services data cubes. Report Models, and how they can support end users creating ad-hoc reports, are covered and students practice with them in comprehensive hands on exercises. This includes a demonstration of Report Builder, which is a free report authoring tool from Microsoft. The course ends with a complete overview of Report Server administration, including how to deploy and secure reports, how to schedule automatic report generation and delivery, how to backup reports, how to store previous copies of reports in history folders, and how to maintain and troubleshoot Report Servers.

## Course Prerequisites

Familiarity with database concepts, Windows desktop navigation and software installation techniques. Attendance at SST's [SQL Programming](#) course or [Microsoft Transact-SQL Programming](#) course is highly recommended although not required.

# Course Overview

## Reporting Services Architecture

- All Report Server Components Defined
- Review of the Report Server Databases
- Managing the Report Manager Web Interface
- Report Lifecycle Step by Step

## Advanced Report Features

- Setting Up Input Parameters
- Adding Custom Report Navigation
- Adding Drill-Down for Master-Detail Reports
- Linking Reports
- Using Sub-reports
- Adding Conditional Formatting

## Implementing Report Models

- Understanding Report Models
- Defining and Deploying Report Models
- Setting Friendly Names for Source Data
- Managing and Securing Report Models

## Reporting Services Security

- Organizing Reports in Folders
- Setting Permissions on Reports and Folders
- Managing Security Roles
- Securing Data Sources and Report Models
- Logging Activity on the Report Server

## Adding Custom Code

- Querying the Report Server

## Creating Basic Reports

- Creating Table Reports
- Formatting Options
- Adding Headers and Footers
- Using Subtotals and Formulas
- Adding Charts and Gauges
- Using Lists for Free-Form Reports
- Paging and Sorting
- Managing Data Sources

## Matrix Reports

- Pivoting Data with Matrix Controls
- Adding Multiple Data Regions
- Grouping and Sorting
- Adding Subtotals
- Adding Custom Aggregate Formulas
- Using the TablixControl

## Report Builder Utility

- Creating Reports with Report Builder
- Connecting to Report Models
- Adding Charts and Gauges in Report Builder
- Differences Between SQL Server Data Tools and Report Builder

## Automating Report Creation and Delivery

- Creating Snapshot Reports
- Storing Previous Versions of Reports
- Caching Reports to Improve Performance
- Defining Subscriptions to Automate Report Delivery
- Rendering Reports in Excel, MS Word or as a PDF
- Hiding Reports from Users

## .NET Integration with Reporting Services

- Writing User-Defined Functions in

## Creating Custom Data Extensions

- Creating Command Objects
- Creating Data Reader Objects
- Generating Report Definition Language

## .NET

- Using Custom Functions
- Referencing .NET Libraries
- Managing Report Servers from .NET Applications
  - Accessing SSRS from .NET Applications
  - Retrieving Report Items
  - Listing Report Metadata
- Using the ReportViewer Control in ASP.NET Applications

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