

## Microsoft SQL Server 2005 Reporting Services Training Course

### COURSE DESCRIPTION

The *Microsoft 2005 SQL Server Reporting Services Training Course* is a 3-day instructor-led class designed to provide attendees with a fundamental understanding of the Microsoft SQL Server Reporting Services reporting solution, delivered by a Microsoft Certified Trainer. In addition to the core Reporting Services training material, a Wonderware Certified Trainer will cover the integration between Wonderware Information Server 3.0 and Reporting Services, resulting in a full-featured and powerful analytics and reporting solution for plant and process data.

### OBJECTIVES

Upon completion of this course, students will be able to:

- Create reports using SQL Server 2005 Reporting Services
- Add calculations and formatting to reports
- Group and sort data within reports
- Add report parameters and set their values at runtime
- Manage and secure Reporting Services
- Distribute reports via subscriptions
- Integrate Reporting Services into applications
- Integrate Reporting Services into Wonderware Information Server
- Develop a reporting solution based around SQL Server Reporting Services, Wonderware Historian 9.0 and Wonderware Information Server 3.0

### AUDIENCE

Plant floor engineers, system administrators, System Integrators, IT professionals, and other individuals who need to implement, manage and use SQL Server Reporting Services software with their Wonderware IndustrialSQL Server™ Historian, databases, and Information Server™ in their manufacturing processes.

### PREREQUISITES

The prerequisites for this course are:

- Knowledge of Microsoft Windows
- Experience using Microsoft SQL Server
- Basic knowledge of the SQL language is recommended – please do the SQL tutorial at [www.sqlcourse.com](http://www.sqlcourse.com) prior to the start of class if necessary

## **COURSE OUTLINE**

**Duration:** 3 days

- Introducing SQL Server Reporting Services
  - Tour of Features
  - Reporting Services Architecture
  - Reporting Services Terminology
  - Reporting Services Editions
  - Taking Reporting Services for a Spin
- Creating Reports
  - Deconstructing Reporting Services
  - Shared Data Sources
  - Creating Reports from Scratch
- Calculations and Formatting
  - Creating Expressions
  - Using the Global Collections
  - Formatting Items
  - Conditional Formatting
- Grouping and Sorting
  - Creating Groups
  - Calculating Totals and Percentages
  - Interactive Sorting
  - Creating Drill-Down Reports
- Report Parameters
  - Creating Report Parameters
  - Creating Drop-Down Parameters
  - Multi-Valued Parameters
  - Debugging Parameter Issues
- Creating Matrix Reports and Charts
  - Creating a Basic Matrix Report
  - Matrix Subtotals
  - Creating a Basic Chart
  - Exploring the Charting Possibilities
- Managing Reporting Services
  - Deploying Reports and Data Sources
  - Exporting Reports and Printing
  - Using the Web-Based Report Manager
  - Using SQL Server Management Studio-based Reporting Services Manager
- Reporting Services Security
  - Two Parts to Reporting Services Security
  - Securing Access to Reports
  - Data Source Security
- Programming Reporting Services
  - The Many Reporting Services APIs
  - Integrating Reporting Services into Applications using URL Access
  - Using the Reporting Services Web Service
- Advanced Reporting Services Programming
  - Using the Reporting Services Web Service
  - Working with Custom Assemblies

- Snapshots and Subscriptions
  - Caching and Snapshots
  - Creating Standard Subscriptions
  - Creating Data-Driven Subscriptions
  - Managing Subscriptions
- Ad-Hoc Reporting with Report Builder
  - The Report Builder Architecture
  - Creating Report Model Projects
  - Running Report Builder
- ***BONUS Wonderware Material!!***
  - Integration with Wonderware Information Server
  - Building a Reporting Application against Wonderware Historian
  - Passing Parameters from Table Weaver to SQL Server Reporting Services
  - Arcestra Reports