

<b>Workshop</b>	
Name	Synergetics-Standard-SQL Server 2012-Reporting Services
Duration	3 Days
Objective	Reporting Services can be used to generate reports against most databases, for example Oracle, as well as SQL Server and Analysis Services. Participants will gain the knowledge and skills to produce professional reports incorporating enhanced visualization features, and manage the delivery of the reports through organization portals.
Participants' Entry Profile	Participants attending this course must have: <ul style="list-style-type: none"> <li>• Concepts of Relational Database Design &amp; Implementation</li> <li>• Understanding of OLTP Applications</li> <li>• Working experience of Visual Studio as an IDE</li> </ul>
Training Methodology	The workshop will follow Synergetics methodology of <b>Concept Visualization</b> <b>Active Experimentation</b> <b>Application Development.</b> The workshop will be <b>100% Hands-On</b> with each participant having access to system during the session

<b>Setup Requirements</b>	
Hardware and Software Requirements	<b>Hardware Requirement</b> Inte1 Pentium 4, 4 GB Ram,  <b>Software Requirement</b> Windows Server 2008 R2 (SP1) Microsoft IIS 6.x or above Microsoft SQL Server 2012 SP1 with BI Stack Microsoft SQL Server Tabular model Instance Microsoft SQL Server MOLAP Instance Microsoft Visual Studio.NET 2010 AdventureWorks2012 and AdventureWorksDW2012 Sample Databases Sql Server Data Tools
Training Lab Requirements	Whiteboard Recommended size - 6 feet by 4 feet Whiteboard markers – Red, Blue, Green, Black Video Projector (1024 X 768 resolutions)

**Course Contents****Day 1**

- **Overview**
  - The Reporting Life Cycle
  - Reporting Services Features
  - Component Architecture
  - Deployment Topology
  - Designing Reports
  - The RDL Anatomy
- **Designing Reports**
  - Working with relational and multidimensional data sources
  - Generating a Tablix reporting structure
  - Building an Interactive Chart
  - Incorporating rich formatted text
- **Composing Expressions**
  - Using custom fields
  - Managing built-in collections
  - Linking expressions to properties
  - Employing conditional formatting
- **Arranging and Sorting data**
  - Multiple-level grouping and categorizing the results
  - Applying aggregate functions
- **Utilizing Tablix Features**
  - Creating parallel dynamic group report formats
  - Combining dynamic and static columns
- **Working with Report Parameters**
  - Yielding subsets of data with query parameters
  - Constructing cascading report parameters
  - Passing parameters to stored procedures
  - Handling multi-valued parameters

**Day 2**

- **Working with data regions in one report**
  - Linking Multiple Data Regions to One Dataset
  - Nesting Data Regions
  - Creating Master/Detail Reports and Linking sub-reports
- **Advanced data visualizations**
  - Applying the radial and linear gauge
  - Customizing Charts with Scale breaks
  - Charting KPIs from Analysis Services
- **Navigating for relevant detail**
  - Drilling through report detail and drilling down report data
  - Navigating reports with document maps

- Reporting with hierarchical rows and dynamic headers
  
- **Programmatic Rendering for Reporting Server**
  - Accessing Reporting Services Objects
  - Reporting Services URL Parameters
  - Passing Report Information through the URL
  - Embedding Reports into Applications using Report Viewer

**Day 3**

- **Managing Reports Using the Report Manager**
  - Introduction to the Report Manager
  - Working with Folders and Reports
  - Working with Data Sources
  - Configuring Users and Permissions
  - System Security and Network Considerations
  - Viewing, Executing, and Scheduling Reports
  
- **Designing models for users**
  - Building personalized reports with Model Designer
  - Defining data source views
  - Creating and refining models
  
- **Designing reports with Report Builder**
  - Launching Report Builder to users across the enterprise
  - Dragging and dropping entities onto charts and tabular reports
  - Exploiting Analysis Services cubes as report models
  
- **SSRS Enhancements (Demo Only)**
  - Introduction to Self Service Reporting
    - Introduction to Power View
    - Creating and Saving Power view Reports in SharePoint
    - Data Visualizations in Power View
    - Filtering, Highlighting, and Slicers in Power View
  - Self Service Alerting
  - SharePoint Mode Enhancements
  - Data Alerts
  - New Word and Excel Rendering Extension