

Course MS55072A

Visualizing Data with SharePoint 2013, Report Builder, PowerPivot & PowerView with NO CODE

Length: 5 Days

About this Course

What do we mean by no code? It is a matter of perspective. In today's world the successful software vendor needs to develop software that is easily customizable by casual users. In the realm of business intelligence that means offering a variety of tools to different types of users that, depending on their experience, they can utilize to rapidly create the visualization of data that suits their needs. Microsoft has produced a great array of such tools that target different users. These tools are various Wizards, Dialog Boxes, Forms, Web Pages Designers and so forth. In this course we utilize the built in tools and do not write a single line of code!

No Code visualization means using the data structures that exist already to get the job done. You don't have the time or maybe the inclination to learn how to code but you need answers. I.T., if you haven't already noticed, is always working through a backlog but your business situation is dynamic and rapidly changing and will not wait for any backlog. In this course you will learn how to get those answers without submitting a request and waiting.

Audience Profile

The target audience of this course is for Business Analysts, Report Designers, Team Leads, SharePoint Administrators, Business Intelligence Developers and Project Managers that will be tasked with the implementation, support, management or training needed to rapidly empower the users to take advantage of the exploding world of Data V.

Why this course may be for you:

You have the infrastructure but getting reports generated out of I.T. just takes too long.

Lack of insight into what has happened is hampering your ability to move forward.

You need or want to use the web browser as your source of information so that it is as accessible as the internet.

You want to take advantage of the SharePoint deployment to manage the data connections, report objects, dashboards KPI's etc.

You need to rapidly prototype reports for changing conditions

You want to move from textual reports to graphical reporting.

You are tasked with implementing Six Sigma type reports using Visio Data Driven objects

Your organization wants to implement analysis based on automatically updating data

You need to implement a "Single Source of The Truth" structure.

You need to understand the effectiveness of the reports and dashboards.

You need an understanding of the tools that are available and how to determine which the target audience for those tools is.

You need to implement actionable dashboards to allow line managers to rapidly take action.

At Course Completion

After completing this course, students will be able to:

Perform all of the actions and answer all of the questions listed in: Why this course may be for you.

Course Outline

Module 1: Introduction

This module explains how the class will be structured and introduces course materials and additional administrative information.

What you will get out of this module:

Introduction to the instructor and your peers

A review of what we mean by NO CODE

How to work in the course environment

Lessons

What does NO Code mean?

How to get the most out of this course

The course setup

What is not covered?

Lab : Introduction

Explore the Course Environment

Module 2: Data Visualizations

This module explains concepts of data visualizations.

Lessons

Data Visualization Fundamentals

The Microsoft Toolsets for Visualizations

Lab : Data Visualizations

Explore the Microsoft Toolsets

Module 3: Dashboard Design Principles

This module is an introduction to successful design principles for Dashboard design.

Lessons

Successful dashboards

Quantitative relationships

Summary numbers

Tables or graphs?

Types of graphs

Key performance indicators

Dashboard taxonomies

Pitfalls in dashboard design

Lab : Group Review of Design Problems

Design Problem 1

Design Problem 2

Design Problem 3

Module 4: Microsoft Business Intelligence Stack

This module covers the Microsoft Business Intelligence stack including SQL 2012, Extract-Transform-Load, Reporting Services, Tabular Data, Analysis Services and SharePoint 2013.

Lessons

Microsoft Business Intelligence Overview

Business Intelligence in three ways

SQL Integration Services ETL
 Reporting Services
 Master Data Services
 Data Quality Services
 SharePoint 2013 Business Intelligence
 Lab : Tour of the Microsoft Business Intelligence Stack
 Run a prepared ETL Package
 Create a SQL Server Analysis Services Cube
 Create a Tabular Database
 Examine Master Data Services
 Examine Reporting Services as a native install
 Examine Reporting Services as an integrated SharePoint install
 The SharePoint 2013 Business Intelligence Template

Module 5: Report Builder 3.0

This module explains Report Builder 3.0 wizards, basics of report design, intermediate reports with report parameters and report expressions, report visualizations including graphs, charts, images, and gauges, advanced reporting including the utilization of maps, interactive reports, Report Parts and sub-reports.

Lessons

Introduction to Report Builder 3.0

Report Builder 3.0 Wizards

Report Builder 3.0 Graphics

Intermediate Reports

Lab : Report Builder 3.0

Report Builder Wizards

Basic Reports

Intermediate Reports

Graphics

Module 6: PowerPivot and PowerView

In this module, we will explore PowerPivot and its analytical capabilities. PowerPivot is a data analysis add-on for Microsoft Excel that allows large amounts of data to be collected, aggregated, and analyzed in one workbook. Sounds powerful? It is! We'll cover everything you need to know to get you up, running, and analyzing.

Lessons

PowerPivot

DAX

PowerView

Lab : PowerPivot and PowerView

Create a Pivot Table

Import Data

Create Relationships

Create Calculated Columns

Create Calculated Fields

Save to SQL

Create PowerView Reports

Deploy to SharePoint

Module 7: SharePoint 2014 Excel Services

In this module, we will go over all the new 2013 Excel Services features, and we will explore the core components of Excel Services. We will cover Excel Web Access and its capabilities along with any differences you may encounter in the browser as opposed to the desktop client. There is coverage of the Power View add-in for Excel, and then lastly we will explain the save and share process and have a look at best practices.

Lessons

New 2013 Excel Services Features

Core Components

Excel Web Access (EWA)

What Excel Web Access is Not

Differences in the Browser vs. Desktop

SharePoint Libraries to Store Workbooks

Power View Add-in for Excel

The Save and Share Process

Excel Web App

Best Practices

Lab : SharePoint 2014 Excel Services

Creating a Library to Hold Excel Workbooks

Exploring the Power View Add-in for Excel

Save and Share an Excel Workbook to a SharePoint Document Library

Add an Excel Web App to a Webpage

Module 8: SharePoint 2013 PerformancePoint Services

In this module, we will give you an overview of the new 2013 PerformancePoint Services features. Dashboard Designer is explored along with many of the objects and connections available within.

Lessons

New 2013 Overview of PerformancePoint Services

Dashboard Designer

Data Sources

Indicators

KPIs

Visual Reports

Filters

Scorecards

Dashboards

Lab : PerformancePoint 2013

PerformancePoint Services Dashboard Designer Introduction and Data Source Configuration

Standard or Blank KPI Demonstration

Leaf KPI Demonstration

Objective KPI Demonstration

Visual Reports

PerformancePoint Filters

PerformancePoint Cascading Filters

Time Intelligence Filters

Scorecard Settings

Scorecards Filtered Using the Wizard

PerformancePoint Dashboards