SharePoint Training DVD Videos
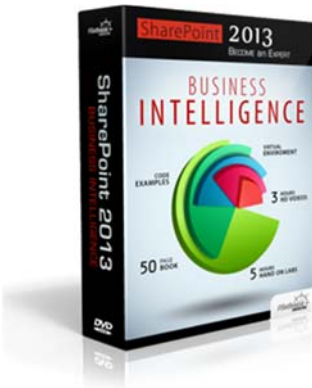
SharePoint 2013 Business Intelligence

Intended for:	**Business Users / Administrators** **Architects / Power Users**
Prerequisites:	SharePoint Fundamentals Skills
Hours:	4 hours of video + 5 hours of hands on labs

The goal of the class is to learn essential business intelligence features and tools available in SharePoint.   The class starts with the basics and then thoroughly cover each major area of functionality.   By the end of the course, the student should understand the advantages, capabilities, and implementation of reports in a particular tool.

Learn Essential Business Intelligence Features, Different BI Styles and Tools:

- Understand business intelligence concepts and terminology
- Understand different business Intelligence styles, roles, products, and tools.
- Design reports in Excel utilizing pivot tables, slicers, spark lines, and conditional formatting
- Publish Excel reports to SharePoint Excel Services and understand all the SharePoint options
- Create tabular data models in Excel with PowerPivot and publish to SharePoint
- Utilize measures, hierarchies, perspectives, KPIs, and DAX in PowerPivot
- Use Report Builder to create and publish reports to SharePoint Reporting Services
- Use PerformancePoint Services to create reports on Analysis cubes
- Learn how to publish Visio Diagrams based on data sources into SharePoint

1. **Introduction**

   - Information Collection, Analysis, and Delivery
   - Business Intelligence Styles and Roles
     - o Self Service and Business Reporting by Business Analysts
     - o Performance Monitoring and Scorecarding by Business Analysts
     - o Parameterized and Operational Monitoring by IT
   - Microsoft Products and how they interact
     - o SQL
     - o Client
     - o SharePoint

2. **Terminology**

   - Pivot table
   - BI Models
     - o Tabular model
       - ▪ DAX
       - ▪ Calculated columns
       - ▪ Measures and hierarchies
       - ▪ KPIs
     - o Multidimensional model
       - ▪ Cube
       - ▪ Measures and Dimensions
       - ▪ MDX
   - KPIs and ScorecardsWeb Applications, Content Databases, and Service Applications

3. **Data Connections and Secure Store Service**

   - Data connections formats
     - o Location
       - ▪ Embedded
       - ▪ Data connections libraries
     - o Authentication
       - ▪ Windows authentication

- ▪ Secure Store
- • Data refreshes

4. Excel Services

- • Roles
- • Designing reports in Excel
  - o What's not allowed
  - o Tables and pivot tables
  - o Slicers
  - o Conditional formatting and sparklines
    - ▪ Color scales and data bars
    - ▪ Top bottom values
    - ▪ Icons
- • Reports in SharePoint
  - o Publishing options
    - ▪ Which sheets to publish
    - ▪ Permissions
    - ▪ Data refresh
  - o Embedding reports
    - ▪ Excel access web part
    - ▪ REST api
  - o Web parts and filters
- • Excel service application settings
  - o Architecture
  - o Trusted locations
  - o Trusted data connection libraries

5. Excel with PowerPivot

- • Relationships between tables
- • DAX
- • Calculated columns
- • Hierarchies
- • KPIs
- • Perspectives
- • Manage PowerPivot Data Refresh

6. Reporting Services

- • Tools comparison
- • SharePoint Integration

- Report Builder
  - Data sources and data connections
  - Shared data sets
  - Report templates and web parts
  - Pull or push delivery
- PowerView
  - Consuming PowerPivot data models
  - Visualizations
- Configure Reporting Services Application

7. Performance Point Services

- Purpose
- Data sources
  - Analysis services
  - Other data sources: tables, SharePoint lists (many feature will not be available)
- Dashboard Designer
  - KPIs and KPI Details
  - Scorecards
  - Analytical Charts
  - Decomposition tree
  - Strategy map

8. Visio Graphics Service

- Creating diagrams
- Data sources
- Publishing to SharePoint
  - Service application settings

9. Business Data Connectivity

- External Content Types
- Editing the XML file directly
- Using Business Data List and Item Web Parts