

<b>Workshop</b>	
<b>Name</b>	SharePoint Server 2013 Search
<b>Duration</b>	4 days
<b>Objective</b>	This course explores the development opportunities with Microsoft's most recent release of SharePoint Products and new Search environment in SharePoint Server 2013.
<b>Participants' Entry Profile</b>	<p>Participants attending this course must have development experience on:</p> <ul style="list-style-type: none"> <li>SharePoint Foundation 2010 or SharePoint Server 2010</li> <li>.NET 4.0</li> <li>C# 4.0</li> <li>LINQ</li> <li>XML</li> <li>JavaScript</li> <li>Workflow 4.0</li> <li>JavaScript/JQuery</li> <li>Basic understanding of OData/OAuth</li> </ul>
<b>Training Methodology</b>	<p>The workshop will follow Synergetics methodology of</p> <ul style="list-style-type: none"> <li>Concept Visualization</li> <li>Active Experimentation</li> <li>Application Development.</li> </ul> <p>The workshop will be 100% Hands-On with each participant having access to system during the session</p>

<b>Setup Requirements</b>	
<b>Hardware and Software Requirements</b>	Participant's as well as Trainer's Machine are required to have : Provided as a separate attachment Office 365 [SharePoint Online] Trial Account
<b>Training Lab Requirements</b>	<ul style="list-style-type: none"> <li>Whiteboard 6 feet by 4 feet (minimum)</li> <li>Whiteboard markers – Red, Blue, Green, Black</li> <li>Video Projector (1024 X 768 resolutions)</li> </ul>

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

- **SharePoint 2013 Search Development Basics**
  - Introduction
  - Search-Based Applications
  - Crawled and Managed Properties
  - Keyword Query Language
  
- **Understanding Search Architecture**
  - Architecture Overview
  - Crawling Architecture
  - Content Processing Architecture
  - Query Architecture
  - Demo: Exploring the Search Service Application
  
- **Extending the Search Center**
  - Search Center Extensions Overview
  - Adding Pages to Search Center
  - Creating Result Sources
  - Displaying Search Results
  - Defining Query Rules
  - Adding Refiners
  - Exporting Search Customizations
  - Demo: Content By Search Web Part

**Day 2**

- **Using the Client-Side APIs**
  - Client-Side APIs Overview
  - JavaScript and REST
  - JavaScript and The Client Object Model
  - C# and The Client Object Model
  - C# and REST
  - Demo: Using Search Settings in an App
  - Demo: Client Script Web Parts
  
- **Enhancing Content Processing**
  - Content Processing Enrichment Overview
  - Demo: Defining Required Managed Properties
  - Demo: Developing The Web Service

- Demo: Defining Rules with PowerShell

<b>Day 3</b>	
--------------	--

➤ **SharePoint 2013 Search-Enabling Business Connectivity Services**

- BCS Search Overview
- Demo: Search Enabling an External List
- Mapping Custom Fields

➤ **Connector framework in SharePoint 2013**

- Enhancing the BDC model file for Search in SharePoint 2013
- MyFileConnector custom BCS indexing connector sample
- Crawl associated external content types in SharePoint 2013
- Crawl binary large objects (BLOBs) in SharePoint 2013

➤ **Federated Search**

- Create the federation
- Upload a new page layout
- Add an additional search Web Part to the new zone
- Configure everything
- Adjust the Display Template
- Final result