

Instructor Notes:



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Document History



Date	Course Version No.	Software Version No.	Developer / SME	Change Record Remarks
9 th March 2015	V1.0	4.5	Vaishali Kasture	Creation of the courseware

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Course Goals and Non Goals

- Course Goals
 - To understand the Basics of WCF services
- Course Non Goals
 - Implementation of AJAX based WCF Service and RESTful services



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Pre-requisites



- List the Course Pre-requisites
 - Asp.Net
 - Knowledge of XML Web Services(preferable)
 - SQL Server

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Intended Audience



- Developers, Designers ,Software Engineers.



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Day Wise Schedule



- Day 1
 - Lesson 01 : Overview of WCF 4.5
 - Lesson 02 : Hosting and Consuming WCF Service
 - Lesson 03 : Instance Management and Throttling

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Table of Contents



- Lesson 01: Overview of WCF 4.5
 - .Net 4.0
 - Distributed Applications
 - Services
 - SOAP and REST
 - Microsoft Web Service Framework
 - What is WCF?
 - WCF Design Goals
 - Unification of distributed Technologies
 - WCF Services from outside
 - WCF services from inside
 - Endpoint
 - WCF Priogramming Model
 - Addresses
 - Bindings

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- Lesson 01: Overview of WCF 4.5
 - Contracts
 - Message Exchange Patterns
 - Channels
- Lesson 02: Hosting and Consuming WCF Service
 - Options for Hosting WCF services
 - Creating Proxies at Design Time
 - Creating Proxies at Run time
 - WCF channels
 - WCF Test Client
 - WCF 3.0 Features
 - WCF 4.0 Features
 - WCF 4.5 Features
- Lesson 03: Instance Management and Throttling
 - Instance Management
 - Throttling

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References



- Windows Communication Foundation step by step 4
- WCF 4.5 Multi-Layer Services Development With Entity Framework by Mike Liu
- Programming WCF services –Oreilly –Juval Lowy
- [https://msdn.microsoft.com/en-us/library/dd456789\(v=vs.110\).aspx](https://msdn.microsoft.com/en-us/library/dd456789(v=vs.110).aspx)
- <https://msdn.microsoft.com/en-us/library/ee354381.aspx>



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Other Parallel Technology Areas



- Xml Web Services
- .Net Remoting