EOK TECHNOLOGIES | Training

TIBCO SOA - COURSE CONTENTS

Duration   : 6 Weekends (Sat & Sun : 4 Hours Each Day)
No. Of Hours : 48 Hours.

Overview of Service Oriented Architecture (SOA)

1. Basic Web Services Understanding
2. XML overview – XSD, DTD, XSLT, XPath
3. SOA Introduction, SOA Principles and Service Orientation, SOA Pattern
4. Understanding WSDL, SOAP and UDDI concepts, W3C, SDO
5. Understanding BPEL (Business Process execution Language)
6. Understanding ESB (Enterprise Service bus)

Overview of TIBCO s/w as EAI Technology

1. TIBCO architecture
2. Software installation – TIBCO/TRA, TIBCO/BW, TIBCO/BPEL, TIBCO/EMS, TIBCO/Admin, TIBCO/HAWK, TIBCO/Rendezvous, TIBCO/Active Database.
3. Create one small demo project in TIBCO BW and run the project

TIBCO Basic I - adapters file, FTP, TCP, mail

1. TIBCO File adapter – create File adapter project, execute & run the project
2. TIBCO FTP adapter - create FTP project, execute & run the project
3. Create Tibco project using TIBCO BusinessWorks TCP Plug-in activities
4. Send e-mail using Tibco BW SNTP adapter

TIBCO Basic II - TIBCO Java activity –

1. TIBCO Java Code activity – create project using Java code activity, execute & run the project
2. TIBCO Java Event Source Activity - create project using Java Event source activity, execute & run the project
3. Tibco Java Method, Java To XML, and XML To Java activities – demo project for each java activity

TIBCO Basic III - TIBCO DB adapter

1. Create project using JDBC palette activities via JDBC Query & JDBC Update
2. advanced JDBC - Process in Subsets & Batch update
3. Tibco Active Database – create small project using Tibco ADB

❖ **Mini Project using Tibco Basic adapters (File, FTP, Java activity and DB activity)**

TIBCO Advanced I - ESB Implementation Session

1. Details of different ESB methodology – Java Messaging service (JMS), Tibco Enterprise Messaging Service (EMS), Tibco RV
2. Create project using JMS palette activity
3. Create project using Tibco Rendezvous.

TIBCO Advanced II - BPEL Implementation Session

1. BPEL understanding
2. demo BPEL project using Tibco BPEL BusinessWorks platform

TIBCO Advanced III - SOAP Implementation Session

1. Create one SOAP demo project using step by step process in TIBCO BW
2. Make a standard HTTP soap service – expose existing business process as service
3. Make a standard JMS soap service
4. demo project using SOAP Document/Literal and RPC/ Literal
5. Make a HTTP soap service using SOAP headers
6. Make a JMS soap service using attachments
7. Make a SOAP Project with two endpoints, one for HTTP and one for JMS.
8. Make a project to expose security context for a web service implemented using service resource - SOAP message is signed and encrypted using X.509 token.
9. Other small SOAP projects - writing SOAP attachments to disk, SOAP encoded arrays, SOAP-Plug-in & Mail-Plug-in Inter-Operability, changing transport from JMS to HTTP and vise versa.

❖ **Mini Project using Tibco Advanced concept (SOAP, ESB, BPEL)**

TIBCO Advanced IV – Tibco Administration

1. Basic Tibco administration work
2. Deploy Tibco project by using TIBCO administrator
3. Use of clustering
4. Use of Domain Utility
5. Fault-tolerant & load balancing in Tibco Administrator
6. Hawk Rule base

❖ **Deploy the mini Projects created earlier in Tibco Administrator and practice the basic administration task**

TIBCO/SOA course pre-requisite

- o Java – intermediate
- o XML – intermediate
- o Oracle – basic SQL