



Websphere Course Content:35-40hours

Course Outline

1. WebSphere Overview and new features

- **Overview and new feature**
 - Architecture overview
 - Topology and terminology
 - Topology and terminology - Express
 - Main themes, product packaging and development tools
 - Overview of new features

2. WebSphere Installation and migration

- **installation and migration**
 - Installation overview
 - Profiles - details
 - V6 Install - Network deployment and express
 - Web server plug-in installation
 - Websphere Application Server V6 migration

3. WebSphere system management

- **System management**
 - System management architecture
 - Resource scoping
 - Configuration repository
 - File synchronization
 - Administrative clients overview
 - Browser-based administrative console
 - Start/stop/monitor processes



- Other commands
- Build cell - add / remove nodes
- Cell, deployment manager, node and node agent
- Export and import configuration archives
- Manage generic servers
- Manage node groups
- Application management overview
- Application management install and uninstall
- Application management Lab - install application
- Managed application resources - enhanced EARs
- Lab - enhanced EAR files
- Fine -grained application update
- Lab - application update
- JDBC management
- Manage Web server nodes
- WRD Overview
- WRD deployment automation
- Administrative security

4. WebSphere Security

- **security**
 - Overview and architecture
 - J2EE security for applications
 - Java 2 security for applications
 - CSiv2 security
 - JACC
 - Security for system administrator
 - Authentication mechanism and user registries
 - Adding security for J2C/JDBC resources
 - Adding security for JMS resources

5. WebSphere Service integration technologies

- **Service integration technologies**
 - Overview
 - Architecture
 - Configuration service integration bus resources
 - Configuring JMS resources for service integration bus

- Workload management(WLM) and high availability (HA)
- Mediation

6. WebSphere Workload management and high availability

- **workload management and high availability**
 - Administrative details
 - Data replication services(DRS)
 - High Availability Overview
 - High Availability Details

7. WebSphere Runtime functions

- **classloader and jndi**
 - classloader Overview
 - Details
 - Examples
 - Problem determination and best practice
 - Dynamic application reload
 - JNDI Overview
 - JNDI Basics
 - JNDI Advanced
 - JNDI Examples
 - JNDI Problem determination
 - Transport channel service

8. WebSphere Performance

- **performance and demonstrations**
 - Application server performance overview
 - Websphere Application Server dynamic cache
 - Performance advisor and Tivoli Performance Viewer(TPV)
 - Request metrics

9. WebSphere Problem determination

- **Problem determination**
 - Overview - where to start

- Log files overview
- Loading and tracing
- Log and trace analyzer
- Hung thread detection
- Generating an IBM heap dump
- Connection leak diagnostics

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