



IBM WebSphere Administration 8.5

Course ID: ITG-IBM-110

ITG Software Engineering

WebSphere Administration 8.5

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Course Overview:

This 5 Day course will cover the administration and configuration of WebSphere 8.5. This course will also cover product installation, configuration, system management, administration tools, scripting, clustering for HA, performance tuning, batch, intelligent management as well as packing and deploying applications.

Prerequisites:

Some knowledge of application servers as well as system administration experience.

Who Should Attend this course?

Those who are responsible for the administration of WebSphere 8.5 application server.

Topics:

• System Management	• Product Installation
• Profiles	• SCA
• Administration Console	• OSGI
• WebSphere Processes	• Web Services
• Accessing Relational Databases	• Messaging Providers
• Intelligent Management	• Performance Tuning
• Clustering	• Deployment
• Application Deployment	• WebSphere Batch
• Packaging & Deploying Java EE	• Scripting
• EIS Applications	• Monitoring Distributed Systems

Module 01: System Management

- Architecture Overview
- New Features
- Java Management Extensions
- System Management (Stand Alone & Distributed)

Module 02: Installation on Distributed Systems

- IBM Installation Manager
- Installation Manager installation
- Installation Manager Customization
- WebSphere Installation

Module 03: Profiles on Distributed Systems

- Profile Types
- Planning
- Building systems with Profiles
- Command Line

Module 04: OSGI Applications

- OSGI Overview
- Sample Application
- Packaging OSGI Applications
- Deploying OSGI Applications

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DAY 02 MODULES:

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Module 05: SCA

- SCA Application Introduction
- Sample Application
- Packaging an SCA for Deployment
- Deployment

Module 06: Administration Console

- WebSphere Admin Console Overview
- Security
- Job Manager Console
- Command line tools

Module 07: WebSphere Processes

- Deployment Manager
- Administrative Agent / Job Manager
- Application Servers
- Nodes / Clusters/ Virtual Hosts

Module 08: Scripting

- wsadmin
- Tools for object management
- Properties files
- Script Libraries and online sources

Module 09: Accessing Relational Databases from WebSphere

- JDBC
- Connecting to IBM DB2
- Connecting to Oracle
- Connecting to SQL

Module 10: EIS Applications from WebSphere

- JCA Resource Adapters
- Installation & configuration of resource adapters
- J2C connection factories
- Resource Authentication

Module 11: Messaging Providers

- Messaging Providers Overview
- Configuring Resources: Default messaging provider
- Configuring Resources: WebSphere MQ messaging provider
- Configuring Resources: Third Party providers

Module 12: Web Services

- Web Server Overview
- Web server configuration –toolbox
- Servers & Plug-ins
- Plug-in configuration file

Module 13: Intelligent Management

- Overview
- Introduction to Intelligent Management
- Dynamic Operations
- Health Management

Module 14: Performance Tuning – Distributed Environments

- WebSphere Resource Pools
- JVM Tuning
- Tuning Tools
- Other Considerations

Module 15: Clustering

- Overview
- Clustering
- Workload Management
- High Availability & Failover

Module 16: Monitoring Distributed Systems

- Enabling Monitoring Infrastructures
- Viewing the Monitoring data
- Monitoring operations
- IBM Tivoli Composite Application Manager

Module 17: Performance Tuning

- JVM Tuning
- Connection Pool Tuning
- Runtime Provisioning
- Logging & Tracing

Module 18: Application Deployment

- Java Enterprise Edition 6 support
- Integrated standards-base programming models and extensions
- Monitored Directory Support
- Development & Deployment Tools

Module 19: WebSphere Batch

- Overview
- Batch Programming Models
- Configuring the Batch Environment
- Working with Batch Applications

Module 20: Packing & Deploying Java EE Applications

- Packaging Recommendations
- WebSphere EAR files
- Exporting an application project
- Deployment