

IBM WEBSHERE PROCESS SERVER (WPS) V7.0, DEPLOYMENT COURSE CONTENT

❖ **SECTION 1 - ARCHITECTURE AND TOPOLOGY OVERVIEW (9%):**

- A. Describe the relationship of IBM WebSphere Process Server with related WebSphere products (Compass, Monitor, Fabric, WebSphere Portal).
- B. Explain the core architecture (SOA, Supporting services, Service components, and containers) of IBM WebSphere Process Server.
- C. Explain tradeoffs for clustering and topology in a high-availability and scalable IBM WebSphere Process Server environment, including Hypervisor options.
- D. Explain tradeoffs between people directory options and database options.

❖ **SECTION 2 - INSTALLATION AND MAINTENANCE (12%):**

- A. Identify prerequisites, options and tools for installation, migration and maintenance.
- B. Setup IBM WebSphere Process Server related databases and messaging resources.
- C. Create and federate profiles.
- D. Install Business Process Container and the Human Task Container.
- E. Install Business Space.
- F. Verify IBM WebSphere Process Server installation.
- G. Automate operational and basic administrative tasks.

❖ **SECTION 3 - CONFIGURATION (20%):**

- A. Configure the messaging infrastructure.
- B. Configure the Business Process Container and the Human Task Container.
- C. Configure failover of transaction log.
- D. Configure Business Space.
- E. Configure Common Event Infrastructure (CEI).
- F. Configure REST Services.
- G. Configure relationships and relationship services support.
- H. Configure Web and proxy server.
- I. Configure resource adapters.

❖ **SECTION 4 - SYSTEM ADMINISTRATION AND SECURITY (17%):**

- A. Monitor and manage processes and tasks.
- B. Administer and secure WebSphere Business Space.
- C. Configure and use Application Scheduler.
- D. Administer event sequencing.
- E. Administer business rules and selectors.
- F. Use the store-and-forward capabilities of WebSphere Process Server.
- G. Administer application end-to-end security (Web Services, WebSphere Adapters, HTTP, J2EE roles).
- H. Use the Service Integration Bus (SIB) Explorer.
- I. Manage user and group security using external repositories.

❖ **SECTION 5 – APPLICATION DEPLOYMENT AND ADMINISTRATION (17%):**

- A. Install, uninstall, update and manage business integration applications.
- B. Use the ServiceDeploy tool.
- C. Configure resources for different binding types.
- D. Deploy shared libraries.
- E. Manage business processes using the Business Process Choreographer (BPC) Explorer.
- F. Administer containers.
- G. Explain the Service Component Architecture (SCA) container capabilities and application packaging.

❖ **SECTION 6 - MONITORING AND PERFORMANCE TUNING (9%):**

- A. Monitor business applications using Common Base Event (CBE) Browser.
- B. Use WebSphere Business Space widgets to monitor the system health.
- C. Use the Performance Monitoring Infrastructure (PMI) data and Tivoli Performance Viewer (TPV) to analyze system performance.
- D. Tune business processes and application resources.

❖ **SECTION 7 – TROUBLESHOOTING (16%):**

- A. Handle failed events using Failed Event Manager.
- B. Troubleshoot installation of IBM WebSphere Process Server.
- C. Use tools for gathering diagnostic data (e.g., IBM Support Assistant (ISA)).
- D. Troubleshoot a failed deployment of a business integration application.
- E. Troubleshoot runtime issues with business processes, human tasks and business rules.
- F. Perform problem analysis using Cross Component Traces (XCT).
- G. Examine the log file messages.

