

A large, abstract graphic of purple liquid splashing and flowing, occupying the left side of the page. The liquid forms intricate, organic shapes with varying shades of purple, from light lavender to deep magenta.

# BEA Education Services

Course Catalogue

Spring/Summer 2007

# Welcome to the **Spring/Summer 2007** Course Catalogue from BEA Education Services

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### What's New?

#### • SOA and Service Infrastructure Curriculum

BEA now offers SOA training that is designed from the ground up with tailored curriculum paths for specific audiences, including IT Executives/Senior Managers, Enterprise Architects, Application Architects, Service Engineers, Developers, and Administrators.

#### • Courses to Support New Products

New courses are available to support the latest release of BEA flagship products, including BEA WebLogic Portal 9, BEA WebLogic Integration 9, and BEA Workshop for WebLogic Platform 9.

#### • Flexible Training Options

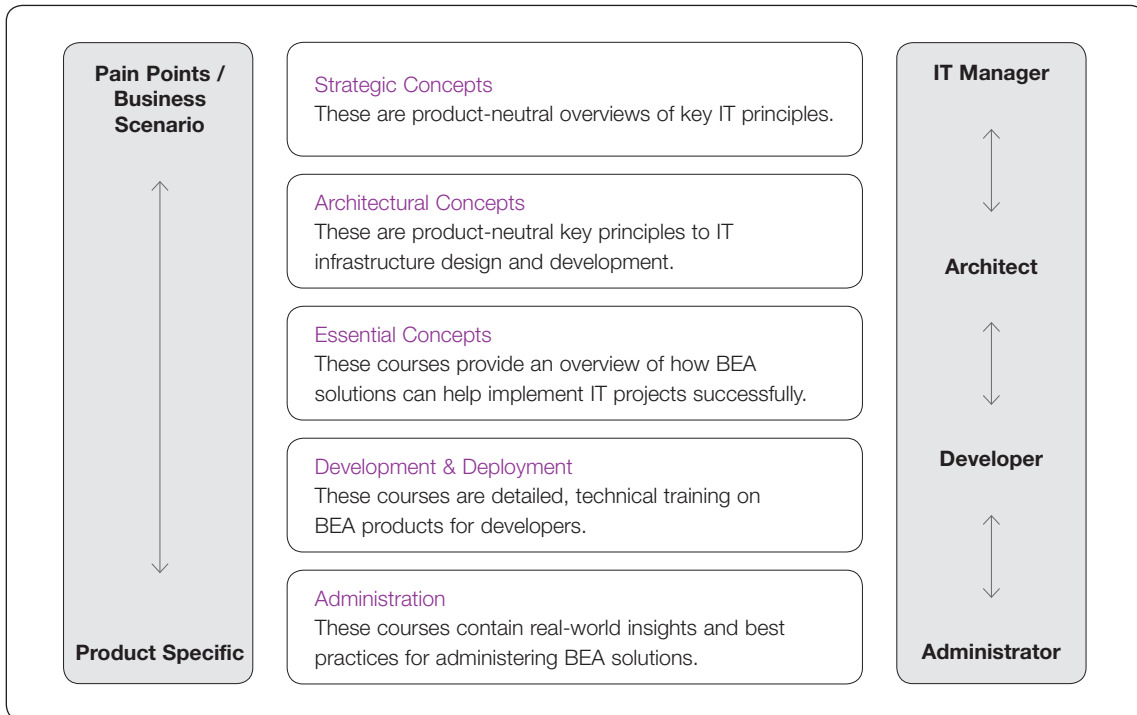
In addition to the traditional instructor-led training in a classroom, courses can now be delivered as instructor-led training over the web, or as online self-study. These options allow you to be flexible in taking training, whether it's convenience in location or time.

# BEA Education Services Portfolio

Full range of training content to address different roles

BEA Education Services offers a portfolio of training courses to cover the range of knowledge needs for various roles within the enterprise for successful IT project implementation.

The portfolio includes:



BEA Education offers targeted curriculum to the following roles:

Key	Role	Description
E	IT Executive and Senior Manager	> Executive and Senior Management of IT department responsible for selling the SOA vision to the business and organizational change and governance strategy.
EA	Enterprise Architect	> Responsible for designing SOA architecture; defines system and infrastructure architecture. Focused on the next generation of SOA (including technologies such as wireless).
AA	Application Architect	> Responsible for the architectural consistency of services in SOA; defines the architectural aspects that are to be consistently applied to all services.
SE	Service Engineer	> Responsible for assembling pre-existing services into newer composite services; defines service interface and designs service implementation.
D	Developer	> Designs, develops, and implements applications to support business requirements; follows approved lifecycle methodologies and performs program coding and testing.
A	Administrator	> Installs new software releases and system upgrades; evaluates and installs patches and resolves software related problems. Performs system backups and recovery.

# Flexible Training Options

Take the relevant training in the delivery method of your choice

BEA Education provides a wide range of training options across all curriculum for all roles. These options are designed to provide you with the right training at the right time and at the right location. Training options include:

## Online Self-study

Flexible, Convenient, Focused

Learn at the pace you need in your comfortable space and convenient time. Access Web-playable recordings created from the same great course materials from instructor-led classes. In accommodating individual learning styles, the course recordings are broken out into modules that focus on specific tasks and last approximately 30 minutes each, and includes access to question-and-answer support via e-mail. Online Self-Study is ideal for students who require maximum flexibility in their learning environments.

## Instructor-led Training in a Public Classroom

Real-time, Hands-On, Interactive

Conducted in 50+ cities worldwide by certified and experienced instructors. Teaching methodologies include hands-on labs, assignments, in-class discussions, and Q&A sessions to reinforce content and build practical experience. Courses are designed for individuals and small teams requiring the personalized attention of instructor-led training.

## Mentoring

Flexible, Focused, Collaborative

Hands-on training for organizations that want to bridge classroom learning with on-the-job execution. A course instructor joins and guides your team during project implementation providing technical coaching to students after their classroom training to compound and build on those skills already learned in the classroom. Mentoring is ideal for customers initiating their first development effort with a BEA product or for those adopting new and emerging BEA technologies.

## Instructor-led Training over the Web

Convenient, Interactive, Focused

The same great instructors and course materials from instructor-led training classes but at your location of choice! Conducted via Internet, instructor-led training over the web provides live instruction that utilizes face-to-face teaching methods including hands-on labs, discussions, Q&A, and assignments over the Internet. This kind of training is ideal for students who prefer not to travel to a physical location.

## Instructor-led Training at Your Location

Team-Focused, Interactive, Collaborative

Courses are led by subject-matter experts who are familiar with your development needs and are sensitive to your implementation challenges. Instructors employ interaction, coaching, and demonstrations to maximize understanding and retention. This kind of training is ideal for development teams and large groups who require tailored course content and teams who seek extensive interaction with our BEA experts.

# BEA Training Needs Analysis

Aligns training with IT and project objectives

The BEA Training Needs Analysis (TNA) process helps enterprises prioritize and focus on developing the mission-critical technical skills that align with IT and project objectives.

## Overview

BEA Training Needs Analysis engagements are designed to enable organizational change and development while optimizing IT training investments and accelerating time-to-value. The TNA service delivers the tools, processes and methodologies to help design training plans around project objectives with a focus on advancing the technical skills of project teams.

TNA delivers the strategic guidance to help today's IT organizations:

- Standardize on a learning framework matched to IT objectives
- Select the best delivery channels that align learning with the pace of project implementation
- Develop role-based learning paths and competency measurements
- Ensure training budgets are allocated to maximize return

TNA engagements are ideally suited for executives and IT managers who:

- Are looking to continuously define, develop and measure the competencies within their extended IT organizations
- Are preparing their organization for a market shift while focusing on retaining talented employees through developmental opportunities (leading special projects, cross-training, formal training)
- Have embraced the vision of new technology approaches like Service-Oriented Architecture (SOA) and recognize the varied and diverse skill requirements needed to achieve the potential of SOA

## Benefits

Employing a proven approach and framework to training needs analysis, along with BEA's leading infrastructure technologies, will help your organization ensure that:

- High-priority, high-return projects are completed successfully
- Talented employees continue to grow their skills
- Risk is minimized
- Technology and business strategies are more easily aligned
- Training budgets are allocated to maximize return

## TNA process

The TNA process provides objective information and strategic guidance at every stage to help you measure and manage progress on training. A Senior Delivery Technologist from BEA will work closely with you and your project teams throughout the process to understand your IT objectives and project needs.

# BEA Training Needs Analysis

Aligns training with IT and project objectives

## Activities and deliverables

### Determine business needs

- Gain an understanding of your overarching IT and business strategies
- Identify the key projects, timeframes and resources

### Identify learning requirements

- Determine the learning objectives and categorize those objectives into key roles
- Establish required timelines for meeting the learning objectives

### Assess current knowledge levels

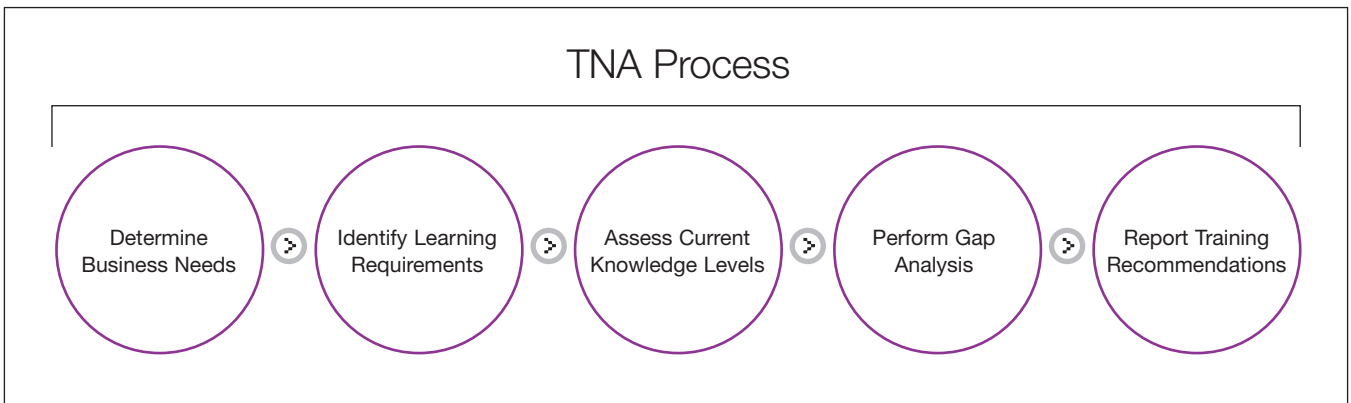
- Identify the current knowledge levels of your IT project teams

### Perform gap analysis

- Compare current skills inventory to the required knowledge level for your IT projects and overall strategies and build an appropriate training plan.

### Report training recommendations

- At the conclusion of the assessment, BEA will present a proposed training plan to successfully meet your IT and project objectives. The report will include recommendations on:
  - An optimal learning framework
  - The best training delivery channels
  - Defined role-based learning paths and suggested curriculum



## For more information

The BEA Training Needs Analysis is currently available worldwide.

Please contact your local BEA sales or education representative.

# The BEA Certification Program

Measures and validates knowledge on BEA technology

BEA Certification Program objectively measures and validates knowledge and expertise on BEA technology. Proven role-based technical training builds customer self-sufficiency by transferring BEA knowledge and best practices across the IT lifecycle.

## Program overview

As part of our continued commitment to building competency on BEA technology, BEA Education Services offers a number of certification paths focused on BEA product technology, as well as BEA's approach to Service-Oriented Architecture (SOA). The BEA Certification Program offers a comprehensive training and educational experience for the participant, providing valuable, measurable rewards to IT professionals, their managers, and the BEA technology-based organizations that employ them.

The BEA Certification Program has three certifications: BEA Certified Developer, BEA Certified Administrator, and BEA Certified Architect. Within each certification, there are role specific designation(s), allowing the candidate to select a focused certification path. Certifications are granted by passing the required multiple-choice exams in a proctored testing environment, or by completing the specific certification requirements.

## Program benefits

BEA Certification measures the effectiveness of application development and implementation of project team members and brings valuable, measurable rewards to IT professionals, their managers, and the organizations that employ them.

### *For IT professionals:*

- Increases long-term career and professional opportunities
- Establishes credibility and differentiation amongst peers, by measuring the knowledge and proficiency gained
- Provides individuals industry recognition and endorsement as a BEA Certified Professional

### *For management:*

- Provides a management and auditing tool that objectively benchmarks, measures and validates role-based competency on BEA technology
- Enables employee retention by facilitating long-term career planning and professional development paths
- Provides a baseline for hiring criteria
- Increases project team's productivity

## Program details

The BEA Certification Program offers role-specific certification for developers, administrators, and architects.

### **BEA Certified Developer**

BEA Certified Developers must be able to implement custom Web applications, interactive portal solutions, complex integrations, and other software used in enterprise applications. The BEA Certified Developer certification has four designations.

- **WebLogic Server 9:** a developer must understand how to successfully develop solutions on BEA WebLogic Server® 9, and can choose to specialize in an open-source application framework by completing the course of choice.
- **Build Solutions for 8.1:** A developer capable of implementing scalable Web applications that interact with databases, legacy systems, and packaged applications.
- **Portal Solutions for 8.1:** A developer who can build interactive Web sites using BEA technologies.
- **Integration Solutions for 8.1:** A developer who can weave complex integrations from a variety of sources using BEA technologies.

### **BEA Certified Administrator**

BEA Certified Administrators must be able to manage the infrastructure and applications deployed on BEA technology.

- **System Administration:** An administrator capable of the planning, installation, configuration, deployment, and management of platform suite installations or applications built on BEA technology.

The designation is available for both BEA WebLogic Platform® 8.1 and BEA WebLogic Platform® 9.

### **BEA Certified Architect**

The BEA Certified Architect Certification is applicable to architects overseeing the design of enterprise applications and infrastructure that leverages BEA technology.

# The BEA Certification Program

Measures and validates knowledge on BEA technology

Architects are responsible for performing technology due diligence and trade-off analysis, designating key design and implementation guidelines, overseeing project implementation and defining implementation success criteria. An architect is capable of managing multiple and strategic enterprise-wide projects, team management, selecting and evaluating new technologies, designing new systems, and integrations with legacy assets. They also have strong architectural skills and the ability to think abstractly, while focusing on the concepts of the project rather than the implementation.

The BEA Certified Architect Certification has two designations.

- **BEA 8.1 Certified Architect: Enterprise Architecture**  
An Enterprise Architecture designation proves proficiency in the workings and understanding of the BEA product

stack, including BEA WebLogic Server®, BEA WebLogic Workshop®, BEA WebLogic Portal®, and BEA WebLogic® Integration. Additionally, the designation ensures that the candidate has command of common design patterns and best practices for Enterprise Application design.

- **BEA Certified Architect: SOA Enterprise Architecture**  
An SOA Enterprise Architecture Certification designation demonstrates a high level of expertise in applying the BEA SOA Domain Model and Reference Architecture to enterprise-scale scenarios. The SOA Enterprise Architecture candidate must understand both technical and organizational issues and how to deal with conflict between the two using best practices, design principles, and industry standard organizational models.

## Certification requirements and preparation

Candidates are encouraged to review the certification learning path diagrams, requirements, exam preparation, and registration information, available at <http://certification.bea.com>.

As a means of certification preparation, BEA highly encourages individuals to attend BEA technical training offered by BEA Education Services. For details, visit BEA Education Services at [www.bea.com/education](http://www.bea.com/education).

## Certification in Three Steps

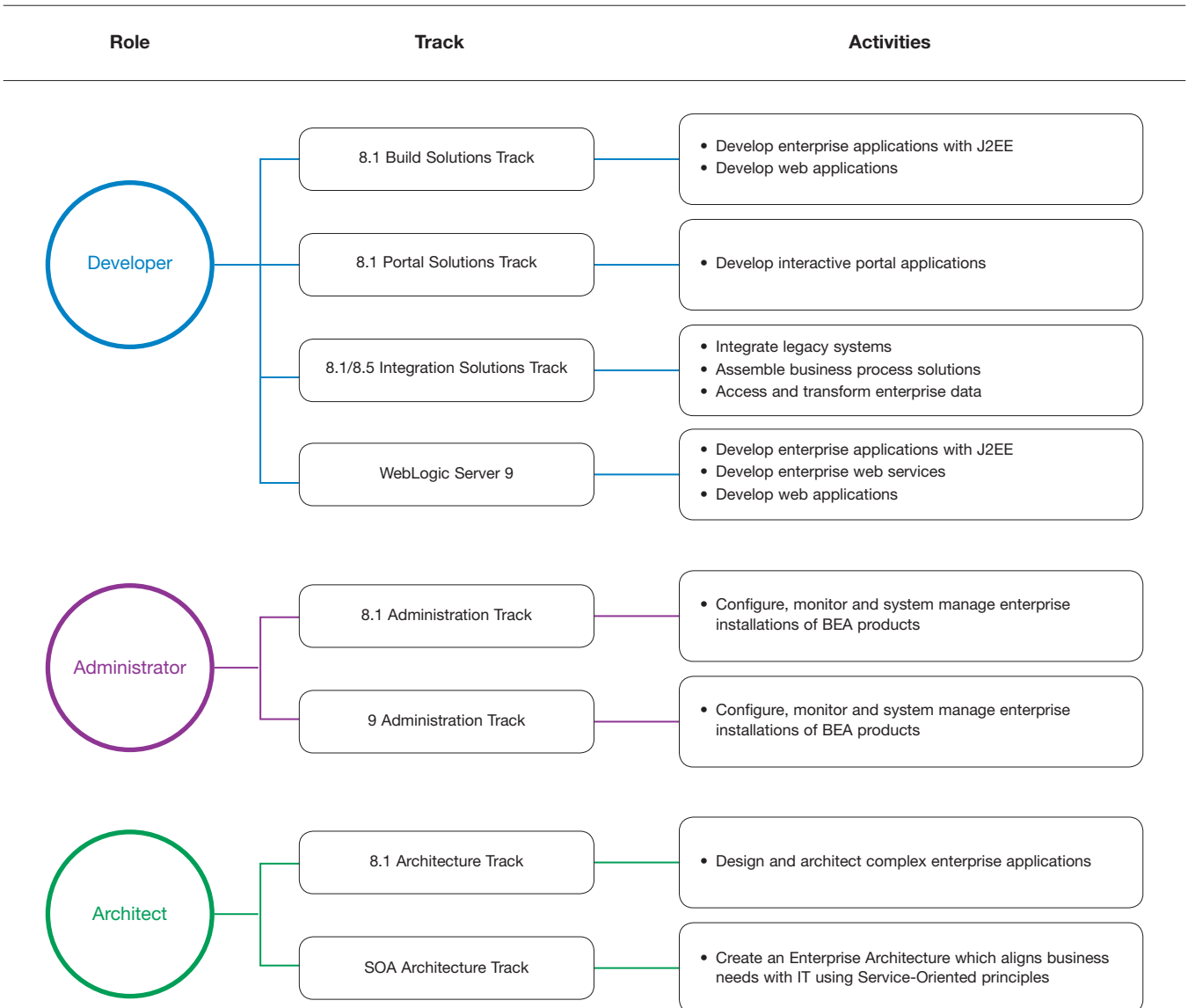
Learn	Certify	Track
<ul style="list-style-type: none"><li>&gt; Visit the BEA Certification Web site <a href="http://certification.bea.com">http://certification.bea.com</a>.</li><li>&gt; Discover the many benefits of becoming BEA Certified.</li><li>&gt; Review and select the applicable certification roles and designations.</li><li>&gt; Review and understand the requirements and exam objectives for the selected exam.</li><li>&gt; Review and attend the relevant training</li></ul>	<ul style="list-style-type: none"><li>&gt; Purchase a certification exam voucher through BEA Education Services. For details, go to <a href="http://certification.bea.com/certification/exam_reg.jsp">http://certification.bea.com/certification/exam_reg.jsp</a>.</li><li>&gt; Redeem your voucher by scheduling an exam appointment at any worldwide Prometric testing center, at <a href="http://www.prometric.com/BEA">www.prometric.com/BEA</a>. Note that you will not be able to schedule an exam without a certification voucher purchased through BEA Education Services.</li><li>&gt; Take the exam.</li><li>&gt; Receive an automated email within 5 business days with information regarding Learning Profile, logo usage, and exam re-take policies.</li><li>&gt; For those who passed the exam, the BEA Certification Program Office will send a certificate in the mail 15-20 business days after the end of the month.</li></ul>	<ul style="list-style-type: none"><li>&gt; Access the Learning Profile Web-based database to update your contact information and/or track your certification status.</li><li>&gt; Have your candidate ID, registration number, date of exam, and site number handy (found on the printed score report received after completing your exam at Prometric. Information also found in the post-exam notification email).</li></ul>

# Curriculum Tracks Overview



D Developer  
A Administrator  
E IT Executive and Sr. Manager  
EA Enterprise Architect  
AA Application Architect  
SE Service Engineer

BEA Education Services offers training and certification paths tailored to help individuals fulfill their functions and roles within an IT organization. Our role-based curriculum tracks primarily target Architects, Developers, and Administrators. In addition, we also offer courses that are of general technical interest.





# Developer

**Legend**  
 → Prerequisite  
 - - - -> Recommended Knowledge

Track	Required Skills
*BEA WebLogic Server 8.1: J2EE Programming with Servlets & JSPs <i>66% of the course relevant to exam</i>	• Java Programming
*BEA WebLogic Workshop 8.1: Rapid Application Development <i>91% of the course relevant to exam</i>	• Java Programming
*BEA WebLogic Server 8.1: J2EE Programming with EJBs <i>34% of the course relevant to exam</i>	• Java Programming • Servlet/JSPs
BEA WebLogic Portal 8.1: Developing Enterprise Portals	• Java Programming • Servlet/JSPs
Option for certification	

\* = Relevant courses for BEA 8.1 Certified Developer: Build Solutions Certification exam.

## 8.1 Build Solutions Track

*Courses available for required skills:*

- Java Programming – Fundamentals of Java
- Servlet/JSPs – BEA WebLogic Server 8.1: J2EE Programming with Servlets and JSPs

*Other relevant courses:*

- BEA WebLogic Server 8.1: System Administration
- BEA WebLogic Server 8.1: Advanced System Administration
- BEA WebLogic Server 8.1: Developing Web Services

Track	Required Skills
BEA WebLogic Workshop 8.1: Rapid Application Development	• Java Programming
*BEA WebLogic Portal 8.1: Developing Enterprise Portals <i>100% of the course relevant to exam</i>	• Java Programming • Servlet/JSPs
Option for certification	

\* = Relevant course for BEA 8.1 Certified Developer: Portal Solutions Certification exam.

## 8.1 Portal Solutions Track

*Courses available for required skills:*

- Java Programming – Fundamentals of Java
- Servlet/JSPs – BEA WebLogic Server 8.1: J2EE Programming with Servlets and JSPs

*Other relevant courses:*

- BEA WebLogic Portal 8.1: System Administration
- BEA WebLogic Server 8.1: Developing EJBs



# Developer

Legend

→ Prerequisite

-----> Recommended Knowledge

Track	Required Skills	8.1/8.5 Integration Solutions Track
BEA WebLogic Server 8.1: J2EE Programming with Servlets and JSPs	<ul style="list-style-type: none"> <li>Java Programming</li> </ul>	<p><i>Courses available for required skills:</i></p> <ul style="list-style-type: none"> <li>Java Programming – Fundamentals of Java</li> <li>EJB Development – BEA WebLogic Server 8.1: Developing EJBs</li> </ul> <p><i>Other relevant courses:</i></p> <ul style="list-style-type: none"> <li>BEA WebLogic Server 8.1: Developing Web Services</li> <li>BEA AquaLogic Data Services Platform: Developing Data Solutions – Advanced</li> <li>BEA WebLogic Integration 8.1: System Administration</li> </ul>
*BEA WebLogic Integration 8.1/8.5: Developing Integration Solutions <i>93% of the course relevant to exam</i>	<ul style="list-style-type: none"> <li>Java Programming</li> <li>Servlet/JSPs</li> </ul>	
BEA AquaLogic Data Services Platform: Developing Data Solutions – Fundamentals	<ul style="list-style-type: none"> <li>Java Programming</li> <li>Servlet/JSP/EJB Development</li> </ul>	
Option for certification		

\* = Relevant course for BEA 8.1 Certified Developer: Integrations Solutions Certification exam.

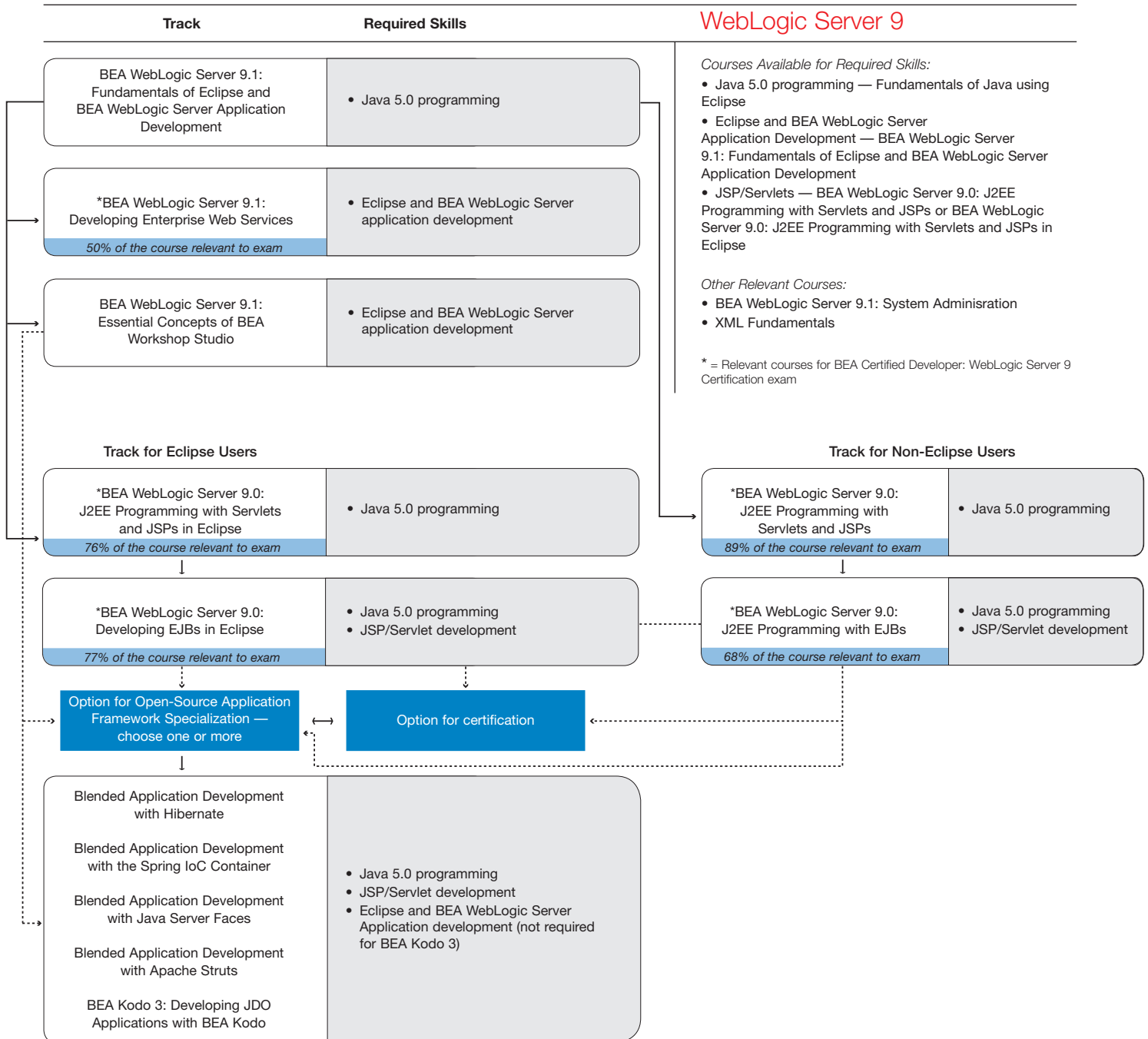


# Developer

**Legend**

→ Prerequisite

-----> Recommended Knowledge



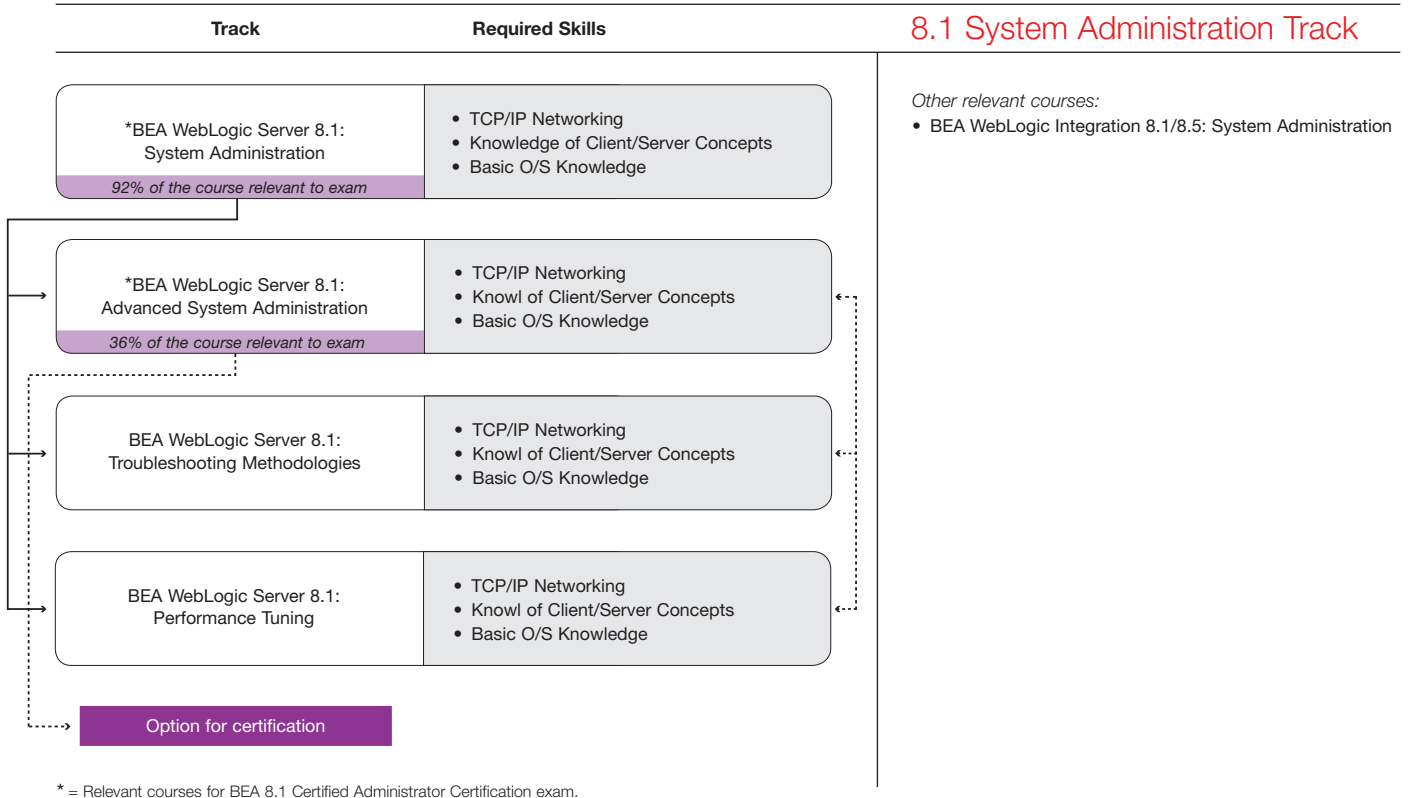


# Administrator

Legend

→ Prerequisite

-----> Recommended Knowledge



## 8.1 System Administration Track

Other relevant courses:

- BEA WebLogic Integration 8.1/8.5: System Administration



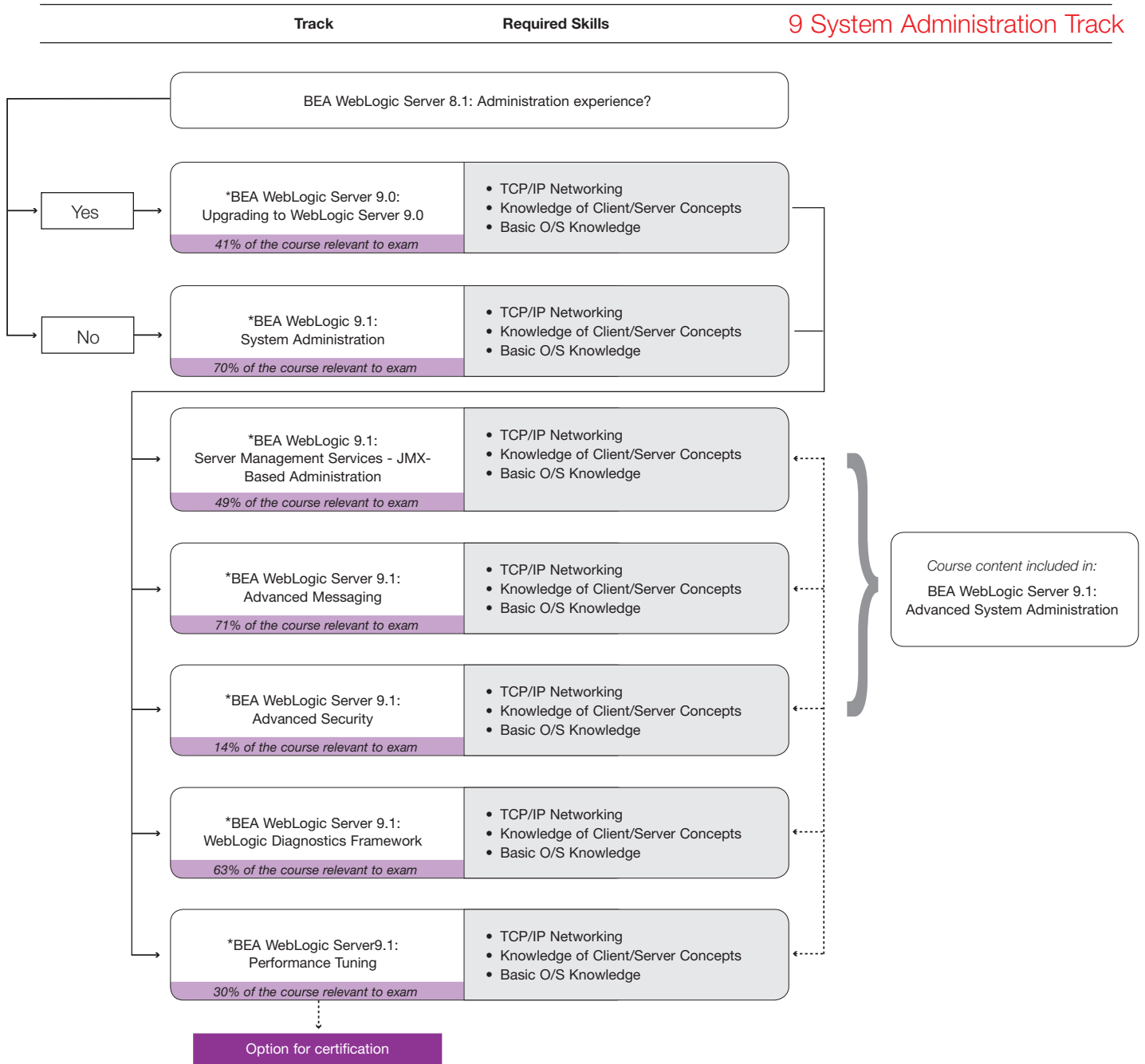
# Administrator

**Legend**

→ Prerequisite

-----> Recommended Knowledge

## 9 System Administration Track



\* = Relevant courses for BEA 9 Certified Administrator: System Administration Certification exam.



# Enterprise Architect

**Legend**

→ Prerequisite

-----> Recommended Knowledge

Track	Required Skills
*SOA: Architectural Concepts and Design Principles <i>28% of the course relevant to exam</i>	<ul style="list-style-type: none"> <li>Fundamental background in Information Technology</li> <li>Familiarity with software development projects</li> <li>Experience with enterprise architecture</li> <li>Experience with software design and basic design patterns</li> <li>Experience with software development projects</li> </ul>
*BEA WebLogic Portal 8.1: Developing Enterprise Portals <i>64% of the course relevant to exam</i>	<ul style="list-style-type: none"> <li>Java Programming</li> <li>Servlet/JSP/EJB Development</li> </ul>
*BEA WebLogic Server 8.1: System Administration <i>64% of the course relevant to exam</i>	<ul style="list-style-type: none"> <li>TCP/IP Networking</li> <li>Knowledge of Client/Server Concepts</li> <li>Basic O/S Knowledge</li> </ul>
*BEA WebLogic Integration 8.1/8.5: Developing Integration Solutions <i>79% of the course relevant to exam</i>	<ul style="list-style-type: none"> <li>Business Strategy and Process Analysis</li> <li>Cost/Benefit Analysis</li> </ul>
Option for certification	

## 8.1 Enterprise Architecture Track

*This course is a bundle of these courses:*

- Organization, Planning and Architectural Considerations for SOA (SOA-B02)
- SOA: Architectural Concepts of Service Design
- SOA: Architectural Concepts of Service Infrastructure

- Courses available for required skills:*
- Java Programming – Fundamentals of Java
  - Servlet/JSPs – BEA WebLogic Server 8.1: J2EE Programming with Servlets and JSPs
  - EJB Development – BEA WebLogic Server 8.1: Developing EJBs
- Other relevant courses:*
- BEA WebLogic Server 8.1: Developing Web Services

\* = Relevant courses for BEA 8.1 Certified Architect: Enterprise Architecture Certification exam.



# Enterprise Architect

**Legend**

→ Prerequisite

-----> Recommended Knowledge

Phase I	Track	Required Skills	SOA Enterprise Architecture Track
	*SOA Strategic Concepts and Principles	<ul style="list-style-type: none"> <li>Fundamental background in Information Technology</li> <li>Familiarity with software development projects</li> </ul>	<p>Also available in Organization, Planning and Architectural Considerations for SOA (SOA-B02)</p> <p><i>Relevant material:</i></p> <ul style="list-style-type: none"> <li>BEA SOA Resource Center (<a href="http://www.bea.com/SOA">www.bea.com/SOA</a>)</li> <li>BEA SOA Domain Model White paper (<a href="http://www.bea.com/SOA">www.bea.com/SOA</a> &gt; Knowledge Library &gt; Research and White Papers)</li> </ul>
	*Organization Planning and Architectural Considerations for SOA (SOA-B01)	<ul style="list-style-type: none"> <li>Fundamental background in Information Technology</li> <li>Familiarity with software development projects</li> <li>Fundamental understanding of SOA concepts</li> </ul>	
	Option for Phase I certification		
* = Relevant courses for BEA Certified Architect: SOA Enterprise Architecture Certification exam phase 1.			

Phase II	Track	Required Skills	
	*SOA: Architectural Concepts and Design Principles <i>100% of the course relevant to exam</i>	<ul style="list-style-type: none"> <li>Fundamental background in Information Technology</li> <li>Familiarity/ experience with software development projects</li> <li>Experience with enterprise architecture</li> <li>Experience with software design and basic design patterns</li> </ul>	<p><i>This course is a bundle of these courses:</i></p> <ul style="list-style-type: none"> <li>Organization, Planning and Architectural Considerations for SOA (SOA-B02)</li> <li>SOA: Architectural Concepts of Service Design</li> <li>SOA: Architectural Concepts of Service Infrastructure</li> </ul>
	*SOA Organization and Governance <i>100% of the course relevant to exam</i>	<ul style="list-style-type: none"> <li>Fundamental background in Information Technology</li> <li>Familiarity with IT governance concepts</li> <li>Fundamental understanding of SOA concepts</li> </ul>	
	*SOA Costs and Benefits <i>100% of the course relevant to exam</i>	<ul style="list-style-type: none"> <li>Fundamental background in Information Technology</li> <li>Familiarity with ROI concepts</li> <li>Fundamental understanding of SOA concepts</li> </ul>	
	*SOA Reference Architecture <i>100% of the course relevant to exam</i>	<ul style="list-style-type: none"> <li>Fundamental background in Information Technology</li> <li>Familiarity with software architectural concepts</li> <li>Fundamental understanding of SOA concepts</li> </ul>	
	*SOA Service-Oriented Development of Applications <i>100% of the course relevant to exam</i>	<ul style="list-style-type: none"> <li>Fundamental background in Information Technology</li> <li>Familiarity with software development concepts</li> <li>Fundamental understanding of SOA concepts</li> </ul>	
	Option for Phase II certification		
* = Relevant courses for BEA Certified Architect: SOA Enterprise Architecture Certification exam phase 2.			

# SOA and Service Infrastructure Curriculum

				Project Lifecycle				
				Training Options	Plan	Design	Implement	Run
Product	Course name	Course number						
	All SOA: Strategic Concepts and Principles*	SOA-01-XX	(S)		•			
	All Organization, Planning, and Architectural Considerations for SOA*	SOA-B01-XX	(S)		•	•		
	All Organization, Planning, and Architectural Considerations for SOA (01+B01)*	SOA-B02-XX	(W)(C)		•	•		
	SOA Organization and Governance*	SOA-B03S-XX	(S)		•			
	SOA Costs and Benefits*	SOA-B04S-XX	(S)		•			
	SOA: Architectural Concepts of Service Design*	SOA-R53-XX	(W)(C)		•	•		
	SOA: Architectural Concepts of Service Infrastructure*	SOA-R55-XX	(W)(C)		•	•		
	SOA Reference Architecture*	SOA-R57S-XX	(S)		•	•		
	SOA Service-Oriented Development of Applications*	SOA-R59S-XX	(S)		•	•		
	SOA: Architectural Concepts and Design Principles (B02+R53+R55)*	SOA-R71-XX	(W)(C)		•	•		

\* = Relevant to certification exams

Training Options: (W) Instructor-led over Web, (C) Instructor-led in a Public Classroom or at Your Location, (S) Online Self-study

## SOA: Strategic Concepts and Principles

SOA-01-XX / (S) / 1 hour

This course trains students on the key concepts and issues associated with SOA. Students will be introduced to the fundamental elements of SOA to include a brief overview of Web services, SOA project planning, and BEA's Domain Model for SOA.

Prerequisites:

- Fundamental background in Information Technology
- Familiarity with software development projects

Recommended knowledge:

- Experience with the software development project lifecycle

Topics covered:

- Introduction to SOA
- The role of Web services
- SOA project profiles
- Introduction to BEA's Domain Model for SOA

Check your local BEA Education Services website for the latest available courses and additional information.

# SOA and Service Infrastructure Curriculum

## Organization, Planning, and Architectural Considerations for SOA

SOA-B01-XX / (S) / 3 hours

This course trains students on the key concepts and issues associated with the adoption of SOA. Students will be introduced to both the business and IT aspects of SOA program planning and governance concerns, as well as an SOA Enterprise Reference Architecture.

Prerequisites:

- Fundamental background in Information Technology
- Familiarity with software development projects
- Fundamental understanding of SOA concepts

Recommended Knowledge:

- Experience with the software development project lifecycle

Topics covered:

- SOA business strategy and process
- SOA Enterprise Reference Architecture
- SOA costs and benefits
- SOA building blocks
- SOA projects and applications
- SOA organization and governance

## Organization, Planning, and Architectural Considerations for SOA

SOA-B02-XX / (W)(C) / 1 day

This course trains IT managers, business analysts and enterprise architects on the key concepts and issues associated with the adoption of a Service-Oriented Architecture. Students will be introduced to both the business and IT aspects of SOA program planning and governance concerns, as well as an SOA Enterprise Reference Architecture.

Prerequisites:

- Fundamental background in Information Technology
- Familiarity with software development projects

Recommended knowledge:

- Hands-on experience with the lifecycle of software development projects

Topics covered:

- BEA's Domain Model for SOA
- SOA business strategy and process
- SOA reference architecture
- SOA costs and benefits
- SOA organization and governance

*Note: This course is a combination of the following two Online Self-study courses:*

- SOA: Strategic Concepts and Principals (SOA-01)
- Organization, Planning, and Architectural Considerations for SOA (SOA-B01)

## SOA Organization and Governance

SOA-B03S-XX / (S) / 1 hour

This course trains IT executives and senior managers, and enterprise architects on the impact that adopting SOA has on both IT and business. To be successful at SOA, companies must make changes in their organizational structure and governance processes. An approach to identify and apply the necessary changes is outlined.

Prerequisites:

- Fundamental background in Information Technology
- Familiarity with IT governance concepts
- Fundamental understanding of SOA concepts

Recommended knowledge:

- Experience with the software development project lifecycle

Topics covered:

- The impact of SOA on IT and business
- The reasons why organizational and governance changes are required to make SOA successful
- The approach to use to achieve the necessary changes

# SOA and Service Infrastructure Curriculum

## SOA Costs and Benefits

SOA-B04S-XX / (S) / 1 hour

This course trains IT executives and senior managers, and enterprise architects on the key concepts and metrics associated with creating a funding justification for SOA. It identifies the types of benefits SOA can provide, for both business and IT. The course outlines and quantifies the types of costs associated with SOA adoption. It presents example metrics that you can use to measure SOA success. Finally, the course covers different funding models that companies have adopted for SOA initiatives.

Prerequisites:

- Fundamental background in Information Technology
- Familiarity with ROI concepts
- Fundamental understanding of SOA concepts

Topics covered:

- How ROI for SOA is different from ROI for traditional applications
- The benefits SOA can provide to business and IT
- The costs associated with SOA adoption
- The metrics that can be gathered to measure the success of SOA
- The funding models that companies use for SOA initiatives

## SOA: Architectural Concepts of Service Design

SOA-R53-XX / (W)(C) / 1 day

This course provides enterprise architects insight into the principles and design concepts associated with SOA services. It will explore the definitions and principles of each type of fundamental shared service to include presentation, business, and data services. There will also be a more detailed coverage of Web services concepts and standards.

Prerequisites:

- Understand the fundamental concepts of a service-oriented architecture
- Understand the strategic concepts associated with an SOA Enterprise Reference Architecture using a layered services model
- Experience with J2EE architecture
- Experience with software design and basic design patterns
- Experience with J2EE software development projects

Topics covered:

- Service layers and types review
- Web services
- Data service design considerations
- Business service design considerations
- Presentation services design considerations
- Composite application concepts

## SOA: Architectural Concepts of Service Infrastructure

SOA-R55-XX / (W)(C) / 2 days

This course trains enterprise architects and IT project leaders to understand the principles and design concepts associated with SOA runtime governance, service bus, service registry, security and service monitoring issues. The training will present the various related BEA product capabilities in context with the associated topic. The primary coverage will explore the design and usage of an ESB and a service registry

Prerequisites:

- Fundamental background in Information Technology
- Familiarity with software development concepts
- Fundamental understanding of SOA concepts

Topics covered:

- Shared services access layer
- Design considerations in using an SOA service registry
- Design considerations in using an SOA ESB
- Design considerations for a shared security services infrastructure
- Service lifecycle and management considerations

## SOA Reference Architecture

SOA-R57S-XX / (S) / 1 hour

This course trains IT managers and enterprise architects on the key concepts and issues associated with creating a SOA Reference Architecture. This course does not present a “generic” SOA Reference Architecture. Rather, it explains why a “generic” reference architecture is not sufficient and provides a process to create a detailed reference architecture that is actionable by project teams. Examples drawn from real-world companies are included in the course to illustrate the concepts presented.

Prerequisites:

- Fundamental background in Information Technology
- Familiarity with IT governance concepts
- Fundamental understanding of SOA concepts

Recommended knowledge:

- Experience with the software development project lifecycle

Topics covered:

- What SOA Reference Architecture is
- Why a SOA Reference Architecture is needed
- How to build SOA Reference Architecture
- How to document SOA Reference Architecture

# SOA and Service Infrastructure Curriculum

## SOA Service-Oriented Development of Applications

SOA-R59S-XX / (S) / 1 hour

This course trains IT managers and enterprise architects on the key concepts and issues associated with software development in a SOA. A reference development process illustrates the various aspects of SOA that must be taken into account during the software development process. Both the development of reusable services and the reuse of services in a composite application are presented.

Prerequisites:

- Fundamental background in Information Technology
- Familiarity with IT governance concepts
- Fundamental understanding of SOA concepts

Recommended knowledge:

- Experience with the software development project lifecycle

Topics covered:

- How do software engineering and SOA relate
- What is different about software development in an SOA enterprise
- Provide a model for SOA-based software development

## SOA: Architectural Concepts and Design Principles

SOA-R71-XX / (W)(C) / 4 days

This course covers the key concepts and issues associated with the adoption of a service-oriented architecture, including SOA principles, service design and infrastructure. It will explore the definitions and principles of each type of fundamental shared service to include presentation, business, and data services. Additionally, the course explores SOA runtime governance, service bus, service registry, security and service monitoring issues.

Prerequisites:

- Fundamental background in Information Technology
- Familiarity with software development projects
- Experience with enterprise architecture
- Experience with software design and basic design patterns
- Experience with software development projects

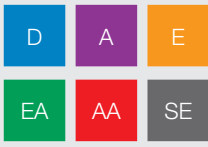



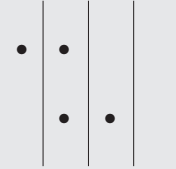



Topics covered:

- SOA Enterprise Reference Architecture
- SOA costs and benefits
- SOA organization and governance
- Service layers and types review
- Service design considerations
- Composite application concepts
- Design considerations in using an SOA service registry, ESB, and security services infrastructure
- Service lifecycle and management considerations

*Note: This course is a combination:*

- *Organization, Planning and Architectural Considerations for SOA (SOA-B02)*
- *SOA: Architectural Concepts of Service Design (SOA-R53)*
- *SOA: Architectural Concepts of Service Infrastructure (SOA-R55)*

# BEA AquaLogic® Service Bus

			Project Lifecycle			
			Plan	Design	Implement	Run
	<b>Developer</b> Administrator IT Executive and Sr. Manager <b>Enterprise Architect</b> Application Architect Service Engineer		Training Options			
	<b>Product</b> BEA AquaLogic Service Bus	<b>Course name</b>  BEA AquaLogic Service Bus 2.5: Essential Concepts   BEA AquaLogic Service Bus 2.5: Integrating and Managing Services for SOA	<b>Course number</b> ALSB-01-25  ALSB-R11-25			
			Training Options  Instructor-led over Web  Instructor-led in a Public Classroom or at Your Location  Online Self-study			

## BEA AquaLogic Service Bus 2.5: Essential Concepts

ALSB-01-25 /  / 1 day

This training provides an overview of BEA AquaLogic Service Bus and how it can be used to create a message infrastructure for services throughout the enterprise.

Prerequisites:

- None

Recommended knowledge:

- Fundamental understanding of Web services

Topics covered:

- SOA and BEA AquaLogic Service Bus
- BEA AquaLogic Service Bus service types
- Message flow configuration
- Monitoring and alerts
- Transport level security

## BEA AquaLogic Service Bus 2.5: Integrating and Managing Services for SOA

ALSB-R11-25 /  / 4 days

This course provides detailed, technical training on BEA AquaLogic Service Bus 2.5. This training provides an in-depth analysis of BEA AquaLogic Service Bus and how it can be used to create a message infrastructure for services throughout the enterprise.

Prerequisites:

- Web services experience
- XML programming experience

Recommended knowledge:

- XPath and XQuery experience
- WebLogic Server Administration 9 experience

Topics covered:

- Basics of SOA
- BEA AquaLogic Service Bus service types
- Message flow configuration
- Best practices with BEA AquaLogic Service Bus
- Federated BEA AquaLogic Service Bus
- Alerts and monitoring
- Message level security
- SAML (Security Assertion Markup Language ) security
- BEA AquaLogic Service Bus clustering

Check your local BEA Education Services website for the latest available courses and additional information.

# BEA AquaLogic® Data Services Platform

			Project Lifecycle				
			Plan	Design	Implement	Run	
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Product	Course name	Course number					
BEA AquaLogic Data Services Platform	<div style="display: flex; align-items: center;"> <div style="margin-right: 5px;"> <div style="background-color: #0070C0; width: 10px; height: 10px; display: inline-block;"></div> <div style="background-color: #800080; width: 10px; height: 10px; display: inline-block;"></div> <div style="background-color: #008000; width: 10px; height: 10px; display: inline-block;"></div> </div>           BEA AquaLogic Data Services Platform 2.5: Essential Concepts         </div>	DSP-01-25	<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">W</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">C</span>	•	•		
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Training Options: 
 
W Instructor-led over Web
 

C Instructor-led in a Public Classroom or at Your Location
 

S Online Self-study

## BEA AquaLogic Data Services Platform 2.5: Essential Concepts

DSP-01-25 / W C / 1 day

This course trains developers and managers on the features of BEA AquaLogic Data Services Platform 2.5. The course shows the features of the product and how they relate to real-world scenarios with instructor-led demonstrations. This training...

- Helps you plan a data integration initiative
- Gives you the information you will need to consider how the BEA AquaLogic Data Service Platform 2.5 can provide your company with the competitive edge

Topics covered:

- Development of data services
- Consumption of data services
- Security of data services
- Metadata management
- Optimization of data services
- Portal acceleration with data services

Check your local BEA Education Services website for the latest available courses and additional information.

# BEA AquaLogic® Data Services Platform

## **BEA AquaLogic Data Services Platform 2.5: Developing Data Solutions – Fundamentals**

DSP-D11-25 /  / 3 days

This course trains developers on the features of BEA AquaLogic Data Services Platform 2.5. The course shows the features of the product and how they relate to real-world scenarios with instructor-led training materials and hands-on exercises.

### Prerequisites:

- Basic Java programming

### Recommended knowledge:

- Familiarity with data service platform
- Familiarity with BEA WebLogic Server, Portal, and Workshop
- Basic XML / XML Schemas, and SQL
- Familiarity with Enterprise JavaBeans (EJB) and Web Services

### Topics covered:

- Development of data services
- Consumption of data services
- Security of data services
- Metadata management
- Optimization of data services
- Portal acceleration with data services

## **BEA AquaLogic Data Services Platform 2.5: Developing Data Solutions – Advanced**

DSP-D21-25 /  / 2 days

The course teaches students how to leverage advanced features of BEA AquaLogic Data Services Platform and how to use best practices developed by BEA consultants and engineering to ensure the best ROI. It offers real-world scenarios with instructor-led training materials and hands-on exercises.

### Prerequisites:

- Basic Java programming
- BEA AquaLogic Data Services Platform 2.5:  
Developing Data Solutions – Fundamentals (DSP-D11-25)  
course or equivalent experience

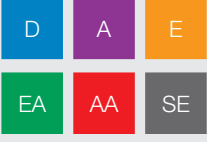

### Recommended knowledge:

- Familiarity with BEA WebLogic Server, Portal and Workshop
- Basic XML/XML schemas, SQL
- Familiarity with EJBs and Web Services

### Topics covered:

- BEA AquaLogic Data Services Platform best practices
- Advanced XQuery
- BEA AquaLogic Data Services Platform and database considerations
- BEA AquaLogic Data Services Platform and Web secured services
- The XQuery Plan Viewer

# BEA AquaLogic® Service Registry

		Developer Administrator IT Executive and Sr. Manager Enterprise Architect Application Architect Service Engineer	Training Options	Project Lifecycle Plan Design Implement Run
<b>Product</b> BEA AquaLogic Service Registry	<b>Course name</b>  BEA AquaLogic Service Registry 2.1: Essential Concepts	<b>Course number</b> ALSR-01-21	(W) (C)	• •
Training Options: (W) Instructor-led over Web, (C) Instructor-led in a Public Classroom or at Your Location, (S) Online Self-study				

## BEA AquaLogic Service Registry 2.1: Essential Concepts

ALSR-01-21 / (W)(C) / 1 day

This course provides an overview of BEA AquaLogic Service Registry and its role in an SOA environment. After taking this course, students will be able to explain taxonomies and how they can be employed in BEA AquaLogic Service Registry to organize services. Additionally, students will be able to describe the lifecycle of services in BEA AquaLogic Service Registry. Finally, students will understand how BEA AquaLogic Service Registry can be leveraged with BEA AquaLogic Service Bus to maximize the value of services in an SOA.

Prerequisites:

- None

Topics covered:

- Introduction to SOA
- Main features of BEA AquaLogic Service Registry
- Taxonomies and BEA AquaLogic Service Registry
- How BEA AquaLogic Service Registry can be used to help companies obtain governance
- How BEA AquaLogic Service Bus and BEA AquaLogic Service Registry can be used with one another

Check your local BEA Education Services website for the latest available courses and additional information.

# BEA AquaLogic BPM Suite

			Project Lifecycle				
			Training Options				
			Plan	Design	Implement	Run	
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	BEA AquaLogic BPM Suite	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%; text-align: center;"> <div style="background-color: #0070C0; width: 10px; height: 10px; margin-bottom: 5px;"></div> <div style="background-color: #800080; width: 10px; height: 10px; margin-bottom: 5px;"></div> <div style="background-color: #FFA500; width: 10px; height: 10px; margin-bottom: 5px;"></div> <div style="background-color: #808080; width: 10px; height: 10px; margin-bottom: 5px;"></div> </div> <div style="width: 50%;"> <p>ALBPM Foundations</p> <p>ALBPM Designer Workshop</p> <p>ALBPM Administration</p> <p>ALBPM Programming 1: Essentials</p> <p>ALBPM Programming 2: Integration</p> </div> </div>	<p>BPM-01-XX</p> <p>BPM-02-XX</p> <p>BPM-A11-XX</p> <p>BPM-D11-XX</p> <p>BPM-D12-XX</p>	<div style="display: flex; gap: 5px;"> <div style="border: 1px solid black; border-radius: 50%; padding: 2px;">W</div> <div style="border: 1px solid black; border-radius: 50%; padding: 2px;">C</div> <div style="border: 1px solid black; border-radius: 50%; padding: 2px;">S</div> </div> <div style="display: flex; gap: 5px;"> <div style="border: 1px solid black; border-radius: 50%; padding: 2px;">W</div> <div style="border: 1px solid black; border-radius: 50%; padding: 2px;">C</div> </div> <div style="display: flex; gap: 5px;"> <div style="border: 1px solid black; border-radius: 50%; padding: 2px;">W</div> <div style="border: 1px solid black; border-radius: 50%; padding: 2px;">C</div> </div> <div style="display: flex; gap: 5px;"> <div style="border: 1px solid black; border-radius: 50%; padding: 2px;">W</div> <div style="border: 1px solid black; border-radius: 50%; padding: 2px;">C</div> <div style="border: 1px solid black; border-radius: 50%; padding: 2px;">S</div> </div> <div style="display: flex; gap: 5px;"> <div style="border: 1px solid black; border-radius: 50%; padding: 2px;">W</div> <div style="border: 1px solid black; border-radius: 50%; padding: 2px;">C</div> <div style="border: 1px solid black; border-radius: 50%; padding: 2px;">S</div> </div>	•	•	•

Training Options



Instructor-led over Web



Instructor-led in a Public Classroom or at Your Location



Online Self-study

## ALBPM Foundations

BPM-01-XX / (W)(C)(S) / 1 day

In this hands-on course, students learn about Business Process Management and the ALBPM product suite, BEA's integrated solution for creating, executing and optimizing business processes.

Prerequisites:

- Familiarity with Business Process Management (BPM) is helpful

Topics covered:

- Discuss how Business Process Management can help a business define and optimize their business processes
- Describe how a process model is built, tested, deployed and run
- Identify the components of a business model
- Identify BPM team members and describe what each does
- Discuss high level BPM best practices recommended by BEA
- Describe the purpose of each component in the AquaLogic Business Process Management product suite and how ALBPM can be used with other AquaLogic products
- Describe how running business processes are monitored and analyzed
- Describe the BEA BPM Methodology for modeling and implementing business processes with ALBPM

## ALBPM Designer Workshop

BPM-02-XX / (W)(C) / 2 days

This introductory class teaches students how to use AquaLogic BPM Designer to model business processes. Students use Designer to build a graphical process model with roles, sequenced activities and business rules.

Prerequisites:

- Familiarity with Business Process Management concepts
- ALBPM Foundations

Topics covered:

- Discuss BEA's systematic approach to business process modeling and implementation
- Describe the purpose of each component of the AquaLogic BPM product
- Model a business process using Designer
- Publish and deploy the process
- Model deadline-based activities and processes
- Refine and improve the efficiency of a business process using various modeling techniques of Designer
- Run a process simulation to identify and analyze potential performance or workflow problems

Check your local BEA Education Services website for the latest available courses and additional information.

# BEA AquaLogic BPM Suite

## ALBPM Administration

BPM-A11-XX / (W)(C) / 1 day

The System Administration course is a one day course that provides an in-depth look at the AquaLogic BPM architecture and how its components are installed, configured and maintained.

Prerequisites:

- ALBPM Programming 1: Essentials is recommended

Topics covered:

- Install AquaLogic BPM Enterprise
- Use the Process Administrator to: Create an ALBPM Engine, Start / Stop the ALBPM Engine, Configure Organization Settings, Manage external resources and catalog components, Publish and Deploy a Project
- Customize the ALBPM Workspace
- Configure an ALBPM Engine Failover
- Create an Archive Database
- Configure AquaLogic BPM Enterprise
- Manage a Production environment

## ALBPM Programming 1: Essentials

BPM-D11-XX / (W)(C)(S) / 3 days

This course covers essential programming concepts needed to develop rich, interactive business processes. Developers work with the activities that make up a business process, developing the code that implements business logic and integration. They also learn to develop UI code for end-user interaction, and use CSS for customization.

Prerequisites:

- Completion of the ALBPM Foundations course
- Experience with C#, Java or other Object Oriented programming language
- Web Programming technologies and issues (HTML, JavaScript )

Topics covered:

- Develop code using the ALBPM Business Process Language
- Describe and use the basic design patterns
- Develop code for all activity types, including split/join and notification wait
- Use ALBPM Studio to define and manage users and roles
- Deploy project code on test and production engines
- Debug process code
- Implement exception handling at the business process and code levels
- Develop business process UI (screenflows and presentations)
- Customize the UI with CSS
- Work with Process Objects
- Develop code to monitor running business processes

## ALBPM Programming 2: Integration

BPM-D12-XX / (W)(C)(S) / 2 days

This course covers essential programming concepts needed to develop rich, interactive business processes. Developers work with the activities that make up a business process, developing the code that implements business logic and integration. They also learn to develop UI code for end-user interaction, and use CSS for customization.

Prerequisites:

- Completion of the ALBPM Foundations course
- Experience with C#, Java or other Object Oriented programming language
- Web Programming technologies and issues (HTML, JavaScript )

Topics covered:

- Develop code to integrate business processes with the following components: Databases, File systems, .NET components, COM components, Java components, XML files, Web Services
- Use Process Objects in integration code
- Develop complex Notification/Wait activity code
- Work with Interprocess Communication in activity code
- Use appropriate exception handling techniques in integration code
- Debug integration code

# BEA AquaLogic User Interaction

			Project Lifecycle				
			Training Options				
			Plan	Design	Implement	Run	
<b>Product</b> BEA AquaLogic User Interaction	<b>Course name</b> <span style="color: blue;">■</span> ALUI Foundations <span style="color: purple;">■</span> ALUI Administration <span style="color: blue;">■</span> ALUI Portal Administration Concepts for Developers <span style="color: blue;">■</span> ALUI IDK Part 1: Portlet Development <span style="color: blue;">■</span> ALUI IDK Part 2: Web Services	<b>Course number</b> ALUI-01-XX ALUI-A11-XX ALUI-D01-XX ALUI-D11-XX ALUI-D12-XX	(W)(C)(S) (W)(C)(S) (C)(S) (W)(C) (W)(C)	• • • • •	• • • • •	• • • • •	
				Training Options: (W) Instructor-led over Web, (C) Instructor-led in a Public Classroom or at Your Location, (S) Online Self-study			

## ALUI Foundations

ALUI-01-XX / (W)(C)(S) / 1 day

This starter course introduces students to the AquaLogic User Interaction family of products, including AquaLogic Interaction (the portal), Collaboration, Publisher, Studio, and Analytics.

### Prerequisites:

- Ability to navigate in Windows
- Proficiency using an Internet browser

### Topics covered:

- Use basic features of the portal (navigate, customize, search for content, people and other items)
- Perform basic user tasks in Collaboration
- Use a typical Publisher portlet to add content to the portal
- Work with the Studio poll portlet
- Explain why users have different experiences with the portal (i.e., witness secured access control)
- Describe the different types of people that are involved in the implementation team

## ALUI Administration

ALUI-A11-XX / (W)(C)(S) / 4 days

This course provides in-depth coverage of the portal's operating system - like security, importing LDAP users and groups, creating and managing crawlers, and administrative maintenance tasks related to content, search and daily housekeeping.

### Prerequisites:

- Foundations course (recommended)
- Basic Windows operating system administration experience
- Familiarity with web and application servers (IIS, Tomcat, WebLogic)
- Familiarity with LDAP servers

### Topics covered:

- Navigate a portal installation
- Perform basic troubleshooting techniques
- Register an Automation Service
- Create, run and troubleshoot jobs
- Perform routine maintenance tasks
- Import, export and edit migration packages
- Create and maintain administrative objects
- Create users and groups (including dynamic groups)
- Set up activity rights and roles for users
- Manage permissions using Access Control Lists (ACLs)
- Create internally and externally-facing communities
- Create experiences for different target audiences
- Configure web services
- Create Lockboxes to hold user login credentials
- Configure an LDAP authorization source that synchronizes-in groups and users
- Configure a User Profile web service that synchronizes more user information
- Create and run complex crawlers
- Maintain content and its search index
- Monitor and troubleshoot the portal using the Logging Spy and other utilities
- Implement best practices

Check your local BEA Education Services website for the latest available courses and additional information.

# BEA AquaLogic User Interaction

## ALUI Portal Administration Concepts for Developers

ALUI-D01-XX / (S) / 1 day

This preparatory course for developers is a collection of administration topics that are important for developers to know about before beginning development on the portal. Portal developers should take this course prior to attending application development courses.

Prerequisites:

- Basic Windows operating system administration experience
- Familiarity with LDAP servers

Topics covered:

- Identify the products in the AquaLogic User Interaction product set
- Describe the basic features of the portal (navigate, customize experiences, search for content, people and other items)
- Describe the different types of people that are involved in the implementation team
- Explain how portal security works (Access Control Lists, Activity Rights Roles)
- Explain how users can be imported from other data sources and their profiles customized for use with custom application development
- Explain how jobs work in the portal

## ALUI IDK Part 1: Portlet Development

ALUI-D11-XX / (W)(C) / 3 days

This course teaches developers to program portlets and covers what is needed for remote tier programming using the Interaction Development Kit (IDK.)

The course also covers fundamental concepts about integrating and deploying application code within AquaLogic Interaction.

The programming environment is either Java or C#.

Prerequisites:

- Completion of the Administration Concepts for Developers course or completion of Foundations and Administration, or equivalent experience with AquaLogic Interaction
- Expertise in either JAVA or C# programming languages
- Web Programming technologies and issues (HTML, JavaScript )
- Experience with either the Eclipse or Visual Studio .NET IIDE

Topics covered:

- Develop a portlet, register it and place it on a page
- Develop portlets that share data using various techniques, including preferences and remote tier data stores
- Use Administrative features to incorporate enterprise web applications into portlets
- Use Adaptive Tags to incorporate processing in their portlets with minimal programming
- Use Adaptive Styles to create custom styles for any application page UI element
- Use the Scripting Framework to invoke client side event functionality and to request server side processing
- Develop portlets that request AquaLogic Interaction services, such as search
- Use appropriate debugging techniques to debug applications on the client, AquaLogic Interaction and remote tiers

# BEA AquaLogic User Interaction

## **ALUI IDK Part 2: Web Services**

ALUI-D12-XX / (W)(C) / 2 days

This course teaches developers how to create and deploy content, search, profile and authentication Web services. Students also learn how to integrate the resulting Web services into the portal.

### Prerequisites:

- Completion of the Administration Concepts for Developers course or completion of Foundations and Administration, or equivalent experience with AquaLogic Interaction
- Expertise in either the JAVA or C# programming languages
- Web Programming technologies and issues (HTML, JavaScript )
- Experience with either the Eclipse or Visual Studio .NET IIDE

### Topics covered:

- Develop a Profile web service that accesses a personnel database
- Use Profile data to affect application functionality
- Develop an Authentication Web Service that accesses a personnel database
- Develop Administration pages to enable configuration of web services
- Use debugging tools to debug portal web services

# BEA WebLogic® Network Gatekeeper

			Project Lifecycle			
			Plan	Design	Implement	Run
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Product	Course name	Course number				
BEA WebLogic Network Gatekeeper	<div style="display: flex; align-items: center;"> <div style="width: 10px; height: 10px; background-color: #0070C0; margin-right: 5px;"></div> <div style="width: 10px; height: 10px; background-color: #800080; margin-right: 5px;"></div> <div style="width: 10px; height: 10px; background-color: #FF0000; margin-right: 5px;"></div> <div style="width: 10px; height: 10px; background-color: #00B050; margin-right: 5px;"></div> </div> BEA WebLogic Network Gatekeeper 2.1: Overview	WLNG-01-21	(C)	•	•	
	<div style="display: flex; align-items: center;"> <div style="width: 10px; height: 10px; background-color: #800080; margin-right: 5px;"></div> </div> BEA WebLogic Network Gatekeeper 2.1: Installation and Configuration Workshop	WLNG-A05-21	(C)		•	•
	<div style="display: flex; align-items: center;"> <div style="width: 10px; height: 10px; background-color: #0070C0; margin-right: 5px;"></div> <div style="width: 10px; height: 10px; background-color: #666666; margin-right: 5px;"></div> </div> BEA WebLogic Network Gatekeeper 2.1: Fundamentals of Extending WLNG with the ESDK	WLNG-D21-21	(C)	•	•	
			Training Options <span style="margin-left: 20px;">(W) Instructor-led over Web</span> <span style="margin-left: 20px;">(C) Instructor-led in a Public Classroom or at Your Location</span> <span style="margin-left: 20px;">(S) Online Self-study</span>			

## BEA WebLogic Network Gatekeeper 2.1: Overview

WLNG-01-21 / (C) / 2 days

This course provides a 2-day technical introduction to BEA WebLogic Network Gatekeeper 2.1. This training is a cost-effective way for students to learn about BEA's telecommunications network integration and protection solution. BEA WebLogic Workshop 8.1 is a development environment for building partner and operator applications as well as an environment service providers can use to develop new applications that interface with BEA WebLogic Network Gatekeeper rapidly and efficiently.

### Prerequisites:

- Basic understanding of the telecommunications and content service provider spaces

### Topics covered:

- Network abstraction evolution
- Network convergence factors
- BEA WebLogic Network Gatekeeper 2.1 Features
- Core system
- Web services
- Network routing
- Security, access control and network protection
- Service capability modules
- Network service capabilities
- Extensible application and network interfaces
- Subscriber privacy and profiles
- Partner relationship management interfaces
- Integration with existing billing, rating and settlement systems
- Supported network protocols
- OAM tools and interfaces
- BEA WebLogic Workshop Controls
- Supported OSs, hardware and databases

Check your local BEA Education Services website for the latest available courses and additional information.

# BEA WebLogic® Network Gatekeeper

## **BEA WebLogic Network Gatekeeper 2.1: Installation and Configuration Workshop**

WLNG-A05-21 / © / 3 days

This course provides a 3-day workshop that teaches you the basic fundamentals needed to install, configure and administrate BEA WebLogic Network Gatekeeper 2.1 on Linux. This training is a cost-effective way for you to learn about BEA's telecommunications network integration and protection solution.

Prerequisites:

- Understanding of telecommunications concepts and content service provider spaces

Recommended knowledge:

- Linux or UNIX administration experience

Topics covered:

- Telecom background
- Introduction to BEA WebLogic Network Gatekeeper 2.1
- Installing BEA WebLogic Network Gatekeeper
- OAM tools and concepts
- Service capability modules
- Plug-in administration
- Routing and messages
- Service level agreements and policies
- Logging and alarm features
- BEA WebLogic Network Gatekeeper and CORBA troubleshooting
- Backups and OAM procedures

## **BEA WebLogic Network Gatekeeper 2.1: Fundamentals of Extending WLNG with the ESDK**

WLNG-D21-21 / © / 5 days

This intensive instructor-led 5-day course will provide the foundation for understanding the BEA WebLogic Network Gatekeeper architecture and introduce the participants to using the ESDK to develop extensions for WLNG through hands-on labs and exercises that include WESPA and SESPA modules, ESPA service capabilities, network plug-in modules and utilities for the policy engine.

Prerequisites:

- Knowledge of basic BEA WebLogic Network Gatekeeper operation
- Java programming experience

Recommended knowledge:

- Telecommunications systems experience

Topics covered:

- Learning the features and functions of BEA WebLogic Network Gatekeeper
- Installing and configuring BEA WebLogic Network Gatekeeper
- Testing BEA WebLogic Network Gatekeeper solutions and using test tools
- Understanding the Extension Toolkit architecture
- Setting up a development environment
- Learning basic CORBA
- Looking into a northbound application
- Developing WESPA modules
- Developing SESPA modules
- Developing ESPA service capabilities
- Extending the policy engine with custom rules
- Developing network plug-ins

# BEA WebLogic® SIP Server

			Project Lifecycle			
			Plan	Design	Implement	Run
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Product	Course name	Course number				
BEA WebLogic SIP Server	<div style="display: flex; align-items: center;"> <div style="width: 10px; height: 10px; background-color: #800080; margin-right: 5px;"></div>           BEA WebLogic SIP Server 2.1: Administration and Operation         </div>	WLSS-A11-21	(C)			•
	<div style="display: flex; align-items: center;"> <div style="width: 10px; height: 10px; background-color: #0070C0; margin-right: 5px;"></div> <div style="width: 10px; height: 10px; background-color: #666666; margin-right: 5px;"></div>           BEA WebLogic SIP Server 2.1: Developing SIP-Enabled Applications         </div>	WLSS-D11-21	(C)		•	•
	<div style="display: flex; align-items: center;"> <div style="width: 10px; height: 10px; background-color: #0070C0; margin-right: 5px;"></div> <div style="width: 10px; height: 10px; background-color: #666666; margin-right: 5px;"></div> <div style="width: 10px; height: 10px; background-color: #FF0000; margin-right: 5px;"></div> <div style="width: 10px; height: 10px; background-color: #800080; margin-right: 5px;"></div>           BEA WebLogic SIP Server 2.2: Essential Concepts         </div>	WLSS-01-22	(W)(C)	•	•	
	<div style="display: flex; align-items: center;"> <div style="width: 10px; height: 10px; background-color: #0070C0; margin-right: 5px;"></div> <div style="width: 10px; height: 10px; background-color: #666666; margin-right: 5px;"></div> <div style="width: 10px; height: 10px; background-color: #FF0000; margin-right: 5px;"></div> <div style="width: 10px; height: 10px; background-color: #800080; margin-right: 5px;"></div>           BEA WebLogic SIP Server 3.0: Essential Concepts         </div>	WLSS-01-30	(W)(C)	•	•	
			Training Options (W) Instructor-led over Web (C) Instructor-led in a Public Classroom or at Your Location (S) Online Self-study			

## BEA WebLogic SIP Server 2.1: Administration and Operation

WLSS-A11-21 / (C) / 3 days

This course covers the installation and administration of a production BEA WebLogic SIP Server environment. After taking this course, students will have the skills to:

- Install and configure BEA WebLogic SIP Server for production deployment
- Capacity plan a deployment
- Manage a running BEA WebLogic SIP Server environment

Prerequisites:

- Experience with BEA WebLogic Server administration

Recommended knowledge:

- BEA WebLogic SIP Server datasheet ([http://www.bea.com/content/news\\_events/white\\_papers/BEA\\_WL\\_SIP\\_Server\\_ds.pdf](http://www.bea.com/content/news_events/white_papers/BEA_WL_SIP_Server_ds.pdf))
- BEA WebLogic Communications Platform™ datasheet ([http://www.bea.com/content/news\\_events/white\\_papers/BEA\\_WL\\_Comm\\_Platform\\_ds.pdf](http://www.bea.com/content/news_events/white_papers/BEA_WL_Comm_Platform_ds.pdf))
- Familiarity with SIP protocol messages and RFC 3261 (<http://www.ietf.org/rfc/rfc3261.txt>)

Topics covered:

- Installing the BEA WebLogic SIP Server
- Designing deployment architecture
- Planning for capacity
- Working with multi-homed machines
- Deploying BEA WebLogic SIP Server in multiple subnets
- Working with NAT requirements
- Configuring the engine tier
- Configuring the data tier
- Automatically restarting a failed server
- Configure logging and performing packet analysis
- Using JMX and WLST
- Throttling the BEA WebLogic SIP Server
- Synchronizing the server clocks
- Using BEA WebLogic SIP Server security
- Using SNMP
- Upgrading platform and application software
- Moving from test to production using domain templates

Check your local BEA Education Services website for the latest available courses and additional information.

# BEA WebLogic® SIP Server

## BEA WebLogic SIP Server 2.1: Developing SIP-Enabled Applications

WLSS-D11-21 / © / 5 days

This course covers developing both stand-alone SIP Servlets and converged J2EE/SIP applications. After taking this course, students will have the skills to:

- Install and configure WebLogic SIP Server for development
- Develop SIP Servlets
- Develop and deploy Web applications that use SIP Servlets to implement telecommunication and next-generation IP communication functionality

Prerequisites:

- Experience with J2EE Web applications and HTTP Servlets

Recommended knowledge:

- BEA WebLogic SIP Server datasheet ([http://www.bea.com/content/news\\_events/white\\_papers/BEA\\_WL\\_SIP\\_Server\\_ds.pdf](http://www.bea.com/content/news_events/white_papers/BEA_WL_SIP_Server_ds.pdf))
- BEA WebLogic Communications Platform™ datasheet ([http://www.bea.com/content/news\\_events/white\\_papers/BEA\\_WL\\_Comm\\_Platform\\_ds.pdf](http://www.bea.com/content/news_events/white_papers/BEA_WL_Comm_Platform_ds.pdf))
- Familiarity with Eclipse
- Familiarity with Struts 1.2.x
- Familiarity with the IETF SIP Specification RFC 3261 (<http://www.ietf.org/rfc/rfc3261.txt>)

Topics covered:

- Voice vs. data networks
- Signaling
- Driving factors of convergence
- How IP is transforming the PSTN
- Voice over IP
- BEA WebLogic Platform™ overview
- BEA WebLogic Communications Platform overview
- BEA WebLogic Communications Platform product line
- BEA WebLogic SIP Server
- BEA WebLogic Network Gatekeeper™
- IP Multimedia Subsystem overview
- BEA WebLogic SIP Server administration for developers
- BEA WebLogic SIP Server-specific admin features
- SIP lifecycle, protocol partners, user agents, Servlets
- Anatomy of SIP
- SIP scenarios and implementations
- Application types and use cases
- Introduction to BEA Workshop Studio 3.0
- Request methods and servlet configuration
- Clustering and security
- Development of Web applications that use SIP Servlets
- Packaging and deployment of Web applications for production

## BEA WebLogic SIP Server 2.2: Essential Concepts

WLSS-01-22 / © / 1 day

This overview course introduces the BEA WebLogic SIP Server 2.2. The lecture and demos will cover information that is of interest to architects (such as capabilities and features and general product use-cases), developers (specifications, use-cases and development details), and administrators (product architecture, deployment and operation models, OAM features). Features that are new to BEA WebLogic SIP Server 2.2 will be indicated.

Prerequisites:

- None

Recommended knowledge:

- Basic BEA WebLogic Server knowledge
- Basic knowledge of telecommunications

Topics covered:

- BEA WebLogic SIP Server as an IMS application server
- SIP and SIP Servlets
- J2EE features
- Architecture
- High-availability, fault tolerance and recovery features
- Deployment and management
- System design and scalability
- High-level application programming interface (API) overview
- Request for Comments (RFC) and standards support
- Converged application design
- Development strategies and tools
- Use case discussions:
  - Back-to-Back User Agents (B2BUA)
  - Conferencing and call control
  - Subscription and notification scenarios
  - Click-to-call and Web Portal Integration
  - J2EE capabilities in IMS architecture such as Enterprise JavaBean (EJB), Java Messaging Service (JMS), Web Services, etc.

# BEA WebLogic® SIP Server

## **BEA WebLogic SIP Server 3.0: Essential Concepts**

WLSS-01-30 /  / 1 day

This overview course introduces the BEA WebLogic SIP Server 3.0. The lecture and demos will cover information that is of interest to architects (such as capabilities and features and general product use-cases), developers (specifications, use-cases and development details), and administrators (product architecture, deployment and operation models, OAM features). Features that are new to BEA WebLogic SIP Server 3.0 will be indicated.

Prerequisites:

- None

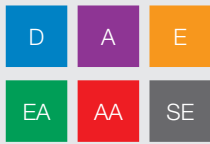
Recommended knowledge:

- Basic BEA WebLogic Server knowledge
- Basic knowledge of telecommunications

Topics covered:

- BEA WebLogic SIP Server as an IMS application server
- SIP and SIP Servlets
- J2EE features
- Architecture
- High-availability, fault tolerance and recovery features
- Deployment and management
- System design and scalability
- High-level application programming interface (API) overview
- Request for Comments (RFC) and standards support
- Converged application design
- Development strategies and tools
- Use case discussions:
  - Back-to-Back User Agents (B2BUA)
  - Conferencing and call control
  - Subscription and notification scenarios
  - Click-to-call and Web Portal Integration
  - J2EE capabilities in IMS architecture such as Enterprise JavaBean (EJB), Java Messaging Service (JMS), Web Services, and so on

# BEA WebLogic Server® 9



Developer  
 Administrator  
 IT Executive and Sr. Manager  
 Enterprise Architect  
 Application Architect  
 Service Engineer

Training Options

**Project Lifecycle**

Plan	Design	Implement	Run
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**Product**

BEA WebLogic Server 9

**Course name**

- ■ ■ ■ New Features
- Upgrading to WebLogic Server 9.0\*
- ■ J2EE Programming with Servlets and JSPs\*
- ■ J2EE Programming with Servlets and JSPs in Eclipse\*
- ■ Developing EJBs in Eclipse\*
- ■ J2EE Programming with EJBs\*
- System Administration\*
- Advanced System Administration\*
- Server Management Services–JMX-Based Administration
- Advanced Messaging\*
- Advanced Security\*
- WebLogic Diagnostics Framework\*
- Performance Tuning\*
- ■ Fundamentals of Eclipse and BEA WebLogic Server Application Development
- ■ Developing Enterprise Web Services\*
- ■ Essential Concepts of BEA Workshop Studio

**Course number**

- WLS-01-90
- WLS-A02-90
- WLS-D11-XX
- WLS-D12-90
- WLS-D15-90
- WLS-D21-XX
- WLS-A11-91
- WLS-A22-91
- WLS-A51-91
- WLS-A66-91
- WLS-A67-91
- WLS-A73-91
- WLS-A75-91
- WLS-D102-91
- WLS-D210-91
- WLS-D303-91

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\* = Relevant to certification exams

Training Options

- (W) Instructor-led over Web
- (C) Instructor-led in a Public Classroom or at Your Location
- (S) Online Self-study

Check your local BEA Education Services website for the latest available courses and additional information.

# BEA WebLogic Server® 9

## BEA WebLogic Server 9.0: New Features

WLS-01-90 /   / 1 day

This course provides a thorough overview of the new capabilities of BEA WebLogic Server 9.0. It gives new customers rapid exposure to BEA WebLogic Server 9.0, and helps students with previous BEA WebLogic Server experience to prepare for 9.0 changes in a short period of time. This one-day course is a cost-effective and time-effective way for individuals with previous BEA WebLogic Server experience to come up to speed quickly on new features in BEA WebLogic Server 9.0, such as the diagnostic framework, side-by-side application deployment and the look-and-feel of the BEA WebLogic Server 9.0 administration console.

### Prerequisites:

- Experience with a previous version of BEA WebLogic Server

### Recommended knowledge:

- Broad knowledge of J2EE would be helpful

### Topics covered:

- BEA WebLogic Server installation
- Upgrade wizard
- Console look-and-feel
- Server operations and configuration
- WLST
- WebLogic Diagnostics Framework
- JDBC
- JMS
- JMX
- Web Services
- Resource Adapters
- Auditing
- Node manager
- Performance enhancements
- Application deployment
- JSPs
- Servlets
- EJBs
- Development enhancements
- Security providers
- SSL
- Deprecated items
- Standards support

## BEA WebLogic Server 9.0:

### Upgrading to WebLogic Server 9.0

WLS-A02-90 /   / 3 days

This course trains BEA WebLogic Server system administrators on the mechanics of upgrading an older version of BEA WebLogic Server to version 9.0. They will learn how to plan and prepare for a successful upgrade, as well as perform the upgrade and post-upgrade tasks for a 100% functional application environment. They will get a chance to work with the new console, use the diagnostics framework, redeploy applications side-by-side and more.

### Prerequisites:

- BEA WebLogic Server 6.1, 7.0 or 8.1: System Administration course or equivalent experience

### Topics covered:

- Planning and preparing for an upgrade
- Upgrading an application environment
- Performing post-upgrade tasks
- Troubleshooting an upgrade
- Using systems management new features
- Using services new features
- Using auditing and diagnostics new features
- Using performance and availability new features
- Using applications new features (including deployment)
- Using security new features

# BEA WebLogic Server® 9

## BEA WebLogic Server 8.1/9: J2EE Programming with Servlets and JSPs

WLS-D11-XX /  / 5 days

This course focuses on the flexibility afforded by using BEA WebLogic Server and its implementation of the J2EE specification during Web-based application development. Students will learn the core features of the presentation components (servlets and JavaServer Pages) and service technologies (naming services, distributed transactions, and multi-tier database access) as they map to the widely used Model-View-Controller (MVC) application architecture. This course also covers the deployment of Web applications, using XML-based configuration files and the BEA WebLogic Server Administration Console. Additionally, students are introduced to the concepts of design patterns and how they are used in the Model-View-Controller design architecture.

This course is suitable for students using either version 8.1 or 9 of WebLogic Server as students can choose the version that they use for the lab exercises.

Prerequisites:

- Object-oriented Java programming

Topics covered:

- BEA WebLogic Server implementation of J2EE
- J2EE Web application development
- J2EE design patterns
- Model-View-Controller design architecture
- Basics of installation of BEA WebLogic Server
- Syntax, configuration and motivation behind:
  - Servlets
  - JSP
  - JNDI
  - JDBC
  - JTA Web applications
  - Enterprise applications
  - Client-side use of EJB

## BEA WebLogic Server 9.0: J2EE Programming with Servlets and JSPs in Eclipse

WLS-D12-90 /  / 5 days

This course focuses on the flexibility afforded by using BEA WebLogic Server 9.0 and its implementation of the J2EE specification and Eclipse 3.1 during Web-based application development. Students will learn the core features of the presentation components (Servlets and JSPs) and service technologies (naming services, distributed transactions, and multi-tier database access) as they map to the widely used Model-View-Controller (MVC) application architecture. This course also covers the deployment of Web applications, using XML-based configuration files and the BEA WebLogic Server Administration Console. Additionally, students are introduced to the concepts of design patterns and how they are used in the MVC design architecture.

Students will get a brief introduction into the motivation and client-side use of EJBs. The complete EJB development and deployment will be covered in the follow-on course: BEA WebLogic Server 9.0: Developing EJBs in Eclipse.

Prerequisites:

- Object-oriented Java programming

Topics covered:

- BEA WebLogic Server 9.0 implementation of J2EE
- J2EE Web application development in Eclipse
- J2EE design patterns
- MVC design architecture
- The basics of installing of BEA WebLogic Server 9.0
- The syntax, configuration and motivation behind:
  - Servlets v2.4
  - JSP v2.0
  - JNDI
  - JDBC
  - JTA Web applications
  - Enterprise applications
  - The client-side use of EJB

# BEA WebLogic Server® 9

## BEA WebLogic Server 9.0: Developing EJBs in Eclipse

WLS-D15-90 /  / 5 days

This course trains back-end Java 2 Enterprise Edition (J2EE) developers to build complex business logic using EJB 2.1, BEA WebLogic Server 9.0 advanced container services, and Eclipse 3.1. This training prepares students to create real-world IT applications using EJBs and EJBGen. Students will become more productive building EJBs.

Prerequisites:

- Object-oriented programming in Java
- Servlet/JSP programming

Topics covered:

- BEA WebLogic Server installation and configuration
- Eclipse 3.1 installation, projects and structure
- Code completion, integrated debugging, instant deployment
- Session and entity beans
- Security and transaction boundaries
- Container and bean-managed persistence
- Container managed relationships
- Local interfaces and EJB optimizations
- EJB patterns
- EJBGen
- Web services, asynchrony, loose coupling
- Clustering EJBs

## BEA WebLogic Server 8.1/9: J2EE Programming with EJBs

WLS-D21-XX /  / 5 days

This course covers the fundamentals of distributed development using Enterprise JavaBeans, including stateless and stateful session beans, entity beans and message-driven beans. The course also covers EJB deployment and container-managed persistence, as well as transactional and security concerns with EJBs. Students will become familiar with the general use of Java Message Service (JMS) and how to write messaging clients.

This course is suitable for students using either version 8.1 or 9 of WebLogic Server as students can choose the version that they use for the lab exercises.

Prerequisites:

- Object-oriented Java programming
- Servlet/JSP programming
- Basic configuration of BEA WebLogic Server

Topics covered:

- EJB architecture
- EJB deployment
- Stateless session beans
- Stateful session beans
- EJB environments and resources
- EJB security
- EJB transactions
- Message-Driven Beans (MDB)
- Local interfaces
- Container-Managed Persistence Entity Beans (ECMP)
- Bean-Managed Persistence Entity Beans (EBMP)
- EJB relationships
- Introduction to messaging
- BEA WebLogic Server JMS

# BEA WebLogic Server® 9

## BEA WebLogic Server 9.1: System Administration

WLS-A11-91 /   / 5 days

This course trains system administrators and data center personnel on techniques for installing, configuring, deploying, and securing distributed, clustered systems deployed on BEA WebLogic Server 9. This training concentrates on techniques for building high-availability, clustered configurations to insure that your applications are available 99.999 percent of the time. Methods for hardening your implementation to provide reliable security are also emphasized. You will be able to ensure Quality of Service (QoS) for large scale J2EE applications hosted on BEA WebLogic Server 9.

Prerequisites:

- TCP/IP networking knowledge of client/server concepts

Recommended knowledge:

- J2EE concepts
- EJB development
- Servlet and JSP development

Topics covered:

- BEA WebLogic Server installation and configuration, network and unattended installs
- BEA WebLogic Server as a Web server
- Security configuration (users, groups, roles, policies, SSL)
- Service management (JMS, JNDI, JDBC, transactions)
- Custom J2EE Class loading
- Startup/shutdown classes
- Application lifecycle events
- Development and production environment configuration
- Node manager
- SNMP
- Monitoring (application, server)
- Network channel configurations
- Administration scripting
- Application deployment
- Cluster configuration
- Proxy Servers
- Session Replication
- Application deployment to a cluster
- Clustering services
- Server migration

## BEA WebLogic Server 9.1: Advanced System Administration

WLS-A22-91 /   / 3 days

This course trains senior system administrators and senior data center personnel on advanced topics surrounding the monitoring and maintenance of BEA WebLogic Server 9.1. It teaches the student how to utilize command-line utilities to monitor, maintain, and optimize BEA WebLogic Server 9.1 domains. The student will also be able to create advanced security and messaging configurations.

Prerequisites:

- BEA WebLogic Server System Administration course or equivalent experience

Recommended knowledge:

- Basic knowledge of Java programming language

Topics covered:

- BEA WebLogic Management Services
- JMX architecture
- WLST scripting
- Interactive and Embedded WLST
- Tailoring WLST scripts
- Store and Forward
- Unit of Order and Path Service
- Messaging bridge and third-party tools
- Single Sign-On (SSO)
- SAML
- Credential mappings
- Security providers
- SSL features
- Cipher JCE provider
- Configuring of compatibility security

*\*Includes content from WLS-A51-91, WLS-A66-91, and WLS-A67-91*

# BEA WebLogic Server® 9

## BEA WebLogic Server 9.1: Server Management Services – JMX-Based Administration

WLS-A51-91 /  / 1 day

This course trains BEA WebLogic Server administrators to use JMX with the BEA WebLogic Server platform. Students will leverage JMX tools to perform administration tasks, including domain configuration, server configuration, run-time monitoring and application deployment. Students will write Ant scripts, WLST scripts, and Java classes that leverage MBeans to perform administration tasks.

Prerequisites:

- BEA WebLogic Server System Administration course or equivalent experience

Recommended knowledge:

- Basic knowledge of Java programming language

Topics covered:

- BEA WebLogic Management Services
- JMX architecture
- Indirection and Introspection
- Notification and monitoring
- J2EE management
- MBeans
- JMX tools
- JMX reference materials
- WLST documentation
- WLST scripting
- Interactive WLST
- Embedded WLST
- Ant scripting
- Prepackaged WLST scripts
- Tailoring WLST scripts

## BEA WebLogic Server 9.1: Advanced Messaging

WLS-A66-91 /  / 1 day

This course trains BEA WebLogic Server administrators on the advanced features of BEA WebLogic Server messaging. The course covers the WebLogic Scripting Tool (WLST) commands used to configure system resources and the steps to configure Store and Forward (SAF), Unit of Order, and Path Service. In addition, the course covers how to configure transactions with Java Message System (JMS), configure a messaging bridge, and connect BEA WebLogic Server to third-party messaging tools.

Prerequisites:

- BEA WebLogic Server administration experience
- Conceptual knowledge of JMS, including queues and topics
- WLST knowledge and experience

Recommended knowledge:

- Knowledge of J2EE
- Knowledge of TCP/IP networking and client/server concepts

Topics covered:

- JMS administration
- Store and Forward
- Unit of Order and Path Service
- JMS transactions
- Messaging bridge and third-party tools
- Advanced administration techniques

## BEA WebLogic Server 9.1: Advanced Security

WLS-A67-91 /  / 1 day

This course trains BEA WebLogic Server administrators to configure security realms and non-default security providers. The course provides the students with practical experience in setting up various kinds of security providers, including the new SAML provider which aids in a single sign-on environment. In addition, this course discusses how to secure WebLogic resources through SSL and how to use the nCipher Java Cryptography Extension (JCE) provider.

Prerequisites:

- BEA WebLogic Server administration experience
- Knowledge of secure communications to and from BEA WebLogic servers
- Basic Java programming language

Recommended knowledge:

- Knowledge of J2EE
- Knowledge of TCP/IP networking and client/server concepts

Topics covered:

- Understanding BEA WebLogic security
- Single Sign-On
- SAML
- Security realm
- Credential mappings
- Security providers
- Using SSL features
- Cipher JCE provider
- Configuring compatibility security

# BEA WebLogic Server® 9

## BEA WebLogic Server 9.1: WebLogic Diagnostics Framework

WLS-A73-91 / (W)(C) / 3 days

This course trains BEA WebLogic Server administrators on the WebLogic Diagnostics Framework. Students will learn how data is generated, gathered, analyzed and saved through the use of data harvesters, watches and notifications, collected metrics, image captures, server instrumentation and data archivers. They will also learn more advanced topics such as how to use the BEA WebLogic diagnostic console extension, configure application-scoped instrumentation, work with dye vectors and dye filtering as well as filtering BEA WebLogic Server log messages.

Prerequisites:

- BEA WebLogic Server System Administration course or equivalent experience

Recommended knowledge:

- Basic knowledge of Java programming language

Topics covered:

- Diagnostic framework architecture
- Diagnostic system modules
- Diagnostic images
- Diagnostic archives
- Data harvesters
- Watches and notifications
- Server-scoped instrumentation
- Diagnostic context
- Data accessors
- WLDF console extension
- Application-scoped instrumentation
- The configuration of the dye vector
- Dye filtering
- The use of throttling to control the volume of instrumentation events
- Logger and handler objects
- Log file filtering

## BEA WebLogic Server 9.1: Performance Tuning

WLS-A75-91 / (W)(C) / 3 days

This course trains developers, architects and BEA WebLogic Server administrators to tune the various aspects of BEA WebLogic Server to attain optimal performance. The course provides the students with practical experience in tuning various kinds of parameters, including Windows, Linux and HP-UX Operating Systems, Java Virtual Machine, BEA WebLogic Server, Applications using JSP, JDBC, EJB, JMS and Clustering.

Prerequisites:

- BEA WebLogic Server System Administration course or equivalent experience

Recommended knowledge:

- Basic Java knowledge
- Basic J2EE knowledge

Topics covered:

- Benchmarking
- Stress testing
- CPU monitoring
- OS tuning
- Sun HotSpot JVM tuning
- BEA JRockit JVM tuning
- Core BEA WebLogic Server tuning
- JSP/Servlet tuning on BEA WebLogic Server
- JDBC tuning on BEA WebLogic Server
- EJB tuning on BEA WebLogic Server
- JMS tuning on BEA WebLogic Server
- Clustering for performance on BEA WebLogic Server

## BEA WebLogic Server 9.1: Fundamentals of Eclipse and BEA WebLogic Server Application Development

WLS-D102-91 / (W)(C) / 1 day

This course introduces students to BEA WebLogic Server development and the Eclipse development platform. It teaches students how to effectively use Eclipse to program, build, install, and unit test Java applications on BEA WebLogic Server.

Prerequisites:

- Java 5.0 fundamentals

Recommended knowledge:


- Some experience developing Java applications
- Basic understanding of HTML and XML
- Basic understanding of Web applications
- Some experience using Structured Query Language (SQL) and Relational Database Management Systems (RDBMS)

Topics covered:

- Fundamentals of Java Web application and BEA WebLogic Server development
- Code BEA WebLogic Server applications with Eclipse and the JDT
- Configure a BEA WebLogic Server development and build environment
- Automate builds using Apache Ant
- Unit-test BEA WebLogic Server applications using JUnit
- Debug BEA WebLogic Server applications in Eclipse

# BEA WebLogic Server® 9

## **BEA WebLogic Server 9.1: Developing Enterprise Web Services**

WLS-D210-91 /  / 4 days

This course introduces students to Web services development for BEA WebLogic Server (WLS) using the Eclipse development platform. Students will develop, deploy and test Web services. Students will also develop Web service clients and JUnit tests.

### Prerequisites:

- Fundamentals of Eclipse and BEA WebLogic Server Application Development course or equivalent experience

### Recommended knowledge:

- Some experience developing object-oriented Java applications with Java 5
- Basic understanding of XML
- Basic understanding of Web applications
- Some experience using Ant

### Topics covered:

- JSR-181
- Web service annotations
- Synchronous/Asynchronous Web services
- Web service consumers
- Beehive controls
- SOAP faults
- Reliable Web services
- Conversational Web services
- Transactional Web services
- Secure Web services

## **BEA WebLogic Server 9.1: Essential Concepts of BEA Workshop Studio**

WLS-D303-91 /  / 1 day

This course teaches students how to use the Eclipse-based BEA Workshop Studio visual development environment to accelerate the development of blended applications that combine standards-based (J2EE) and commercial software with popular, open-source application frameworks such as Apache Struts, JSF, Hibernate, EJB3, and Spring.

### Prerequisites:

- Fundamentals of Eclipse and BEA WebLogic Server application development
- Application development experience with one or more of the following technologies and frameworks:
  - J2EE servlets and JSPs
  - Apache Struts
  - JavaServer Faces (JSF)
  - EJB3
  - Hibernate
  - Spring Framework

### Recommended knowledge:

- Experience using Structured Query Language (SQL) and Relational Database Management Systems (RDBMS)

### Topics covered:

- BEA Workshop Studio overview and configuration
- The BEA Workshop perspective
- The JSP editor
- Struts and JSF visual development features
- The use of the ORM Workbench for EJB3 and Hibernate development
- The Spring IDE

# BEA WebLogic Server® 8.1

			Project Lifecycle				
			Plan	Design	Implement	Run	
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Product	Course name	Course number					
BEA WebLogic Server 8.1	<span style="color: purple;">■</span> System Administration*	WLS-A11-81	(W)(C)			•	•
	<span style="color: purple;">■</span> Advanced System Administration*	WLS-A21-81	(W)(C)			•	•
	<span style="color: purple;">■</span> Troubleshooting Methodologies	WLS-A33-81	(W)(C)				•
	<span style="color: purple;">■</span> Performance Tuning	WLS-A75-81	(W)(C)				•
	<span style="color: blue;">■</span> <span style="color: grey;">■</span> J2EE Programming with Servlets and JSPs	WLS-D11-XX	(W)(C)			•	
	<span style="color: blue;">■</span> <span style="color: grey;">■</span> Developing Web Applications	WLS-D13-81	(W)(C)		•	•	
	<span style="color: blue;">■</span> <span style="color: grey;">■</span> Developing EJBs	WLS-D14-81	(W)(C)			•	
	<span style="color: blue;">■</span> <span style="color: grey;">■</span> J2EE Programming with EJBs	WLS-D21-XX	(W)(C)			•	
	<span style="color: blue;">■</span> <span style="color: grey;">■</span> Developing Web Services	WLS-D29-81	(W)(C)			•	
* = Relevant to certification exams			<b>Training Options</b> (W) Instructor-led over Web (C) Instructor-led in a Public Classroom or at Your Location (S) Online Self-study				

## BEA WebLogic Server 8.1: System Administration

WLS-A11-81 / (W)(C) / 5 days

This course trains system administrators and data center personnel on techniques for installing, configuring, deploying, monitoring, and tuning distributed, clustered systems deployed on BEA WebLogic Server 8.1.

This course is applicable to system administrators and data center personnel. After taking this course, students will be able to incorporate authentication, authorization, auditing and non-repudiation services across the enterprise. Students will also be able to configure a clustered BEA WebLogic Server 8.1 environment; write custom scripts to automate repeatable and tedious administration tasks; create development, staging, QA, and production environments; and deploy J2EE application modules and libraries using a variety of techniques.

### Prerequisites:

- TCP/IP Networking
- Knowledge of client/server concepts

### Topics covered:

- BEA WebLogic Server 8.1 installation and configuration, network and unattended installs
- BEA WebLogic Server 8.1 as a Web server
- Security configuration (users, groups, roles, policies, SSL)
- Service management (JMS, JNDI, JDBC, transactions)
- Troubleshooting
- Performance tuning
- Development and production environment configuration
- Integration across firewalls
- Node manager
- SNMP
- BEA WebLogic Server 8.1 clustering
- JRockit (architecture, features, configuration, monitoring)
- Monitoring (application, server)
- Backup and restore
- Network channel configurations
- Administration scripting
- Message catalog configuration
- JMX
- Application deployment
- Hardening the production environment

# BEA WebLogic Server® 8.1

## **BEA WebLogic Server 8.1: Advanced System Administration**

WLS-A21-81 /   / 5 days

This course trains senior system administrators and senior data center personnel on advanced topics surrounding the monitoring and maintaining of large, distributed, clustered systems deployed on BEA WebLogic Server 8.1. This training prepares you to utilize command-line utilities to monitor and maintain your BEA WebLogic Server 8.1 domains. Students will be able to troubleshoot problems, automate repetitive administrative tasks, use common third party tools, and redeploy resources and applications to an active cluster without restarting.

### Prerequisites:

- Familiarity with O/S Administration
- Experience with day-to-day administration of BEA WebLogic Server 8.1
- Network Administration
- Knowledge of security protocols, techniques and processes
- BEA WebLogic Server 8.1: System Administration or equivalent experience

### Topics covered:

- JVM understanding
- Java Management Extensions
- Advanced server topics
- Securing BEA WebLogic Application Server
- Advanced clustering
- Enterprise Application Management
- Database connectivity
- Transaction management
- Java Message Service administration
- SNMP configuration and monitoring
- Performance tuning and monitoring
- Troubleshooting

## **BEA WebLogic Server 8.1: Troubleshooting Methodologies**

WLS-A33-81 /   / 3 days

This course trains BEA WebLogic server administrators on the methodologies for troubleshooting common technical issues found in the application server environment. This includes the steps to identify the symptoms and causes of the issues, the method of investigating the issues and the ways of resolving the issues in various types of environments including Windows, Linux, Solaris and more.

### Prerequisites:

- Knowledge and experience administering BEA WebLogic Server 8.1
- BEA WebLogic Server 8.1: System Administration or equivalent experience

### Recommended knowledge:

- Knowledge of the O/S environment for BEA WebLogic Server 8.1
- Knowledge of the JVM supporting BEA WebLogic Server 8.1
- Basic knowledge of the Java programming language

### Topics covered:

- General uses of software patterns
- Troubleshoot a server core dump
- Troubleshoot a JVM crash with no core dump
- Troubleshoot a generic server hang
- Troubleshoot high CPU usage
- Troubleshoot out of memory issues and memory leaks
- Troubleshoot server class cast exceptions
- Troubleshoot JDBC issues
- Troubleshoot too many open files issues
- Troubleshoot proxy plug-in issues
- Troubleshoot HTTP session replication failures

# BEA WebLogic Server® 8.1

## BEA WebLogic Server 8.1: Performance Tuning

WLS-A75-81 /  / 2 days

This course trains developers, architects and BEA WebLogic Server administrators to tune the various aspects of BEA WebLogic Server to attain optimal performance. The course provides the students with practical experience in tuning various kinds of parameters, including Windows, Unix and Linux operating systems, Java Virtual Machine, BEA WebLogic Server, applications using JSP (JavaServer Page), JDBC (Java Database Connectivity), EJB (Enterprise JavaBean), JMS (Java Messaging Service), and clustering.

Prerequisites:

- BEA WebLogic Server System Administration course or equivalent experience

Recommended knowledge:

- Basic Java knowledge
- Basic J2EE knowledge

Topics covered:

- Benchmarking and stress testing
- CPU monitoring
- OS tuning
- Sun HotSpot and BEA JRockit JVM tuning
- Core BEA WebLogic Server tuning
- JSP/Servlet tuning on BEA WebLogic Server
- JDBC tuning on BEA WebLogic Server
- EJB tuning on BEA WebLogic Server
- JMS tuning on BEA WebLogic Server
- Clustering for performance on BEA WebLogic Server

## BEA WebLogic Server 8.1/9: J2EE Programming with Servlets and JSPs

WLS-D11-XX /  / 5 days

This course focuses on the flexibility afforded by using BEA WebLogic Server and its implementation of the Java 2 Enterprise Edition (J2EE) specification during Web-based application development. Students will learn the core features of the presentation components (Servlets and JavaServer Pages) and service technologies (naming services, distributed transactions, and multi-tier database access) as they map to the widely used Model-View-Controller application architecture. This course also covers the deployment of Web applications, using XML-based configuration files and the BEA WebLogic Server Administration Console.

This course is suitable for students using either version 8.1 or 9 of WebLogic Server as students can choose the version that they use for the lab exercises.

Prerequisites:

- Object-oriented Java programming

Topics covered:

- BEA WebLogic Server implementation of J2EE
- J2EE Web Application development
- J2EE design patterns
- Model-View-Controller design architecture
- Basics of installation of BEA WebLogic Server
- Syntax, configuration and motivation behind:
  - Servlets
  - JSP
  - JNDI
  - JDBC
  - JTA Web applications
  - Enterprise applications
  - Client-side use of EJB

# BEA WebLogic Server® 8.1

## BEA WebLogic Server 8.1: Developing Web Applications

WLS-D13-81 /  / 3 days

This course provides hands-on experience building Web applications using the BEA WebLogic Server 8.1. BEA WebLogic Workshop 8.1 is the development environment. This training prepares students to create and secure real-world IT applications using page flows, JSPs, controls, JDBC services, and Web services.

Prerequisites:

- Object-oriented Java programming
- Servlet/JSP Programming

Topics covered:

- BEA WebLogic Server installation and configuration
- JSPs, Page flow, Struts, NetUI
- Dynamic forms and FormBeans
- Model/View/Controller Pattern
- Code completion, integrated debugging, tag libraries, instant deployment
- Custom and embedded Java controls
- Web services, asynchrony, loose coupling
- User sessions
- XMLBeans, XQuery, Java data manipulation
- Security (SSL, certificates, authentication, authorization, security providers)
- XA and business transactions

## BEA WebLogic Server 8.1: Developing EJBs

WLS-D14-81 /  / 5 days

This course trains back-end J2EE developers to build complex business logic using EJB 2.0, BEA WebLogic Server 8.1 advanced container services, and BEA WebLogic Workshop 8.1. This training prepares students to create real-world IT applications using EJBs, custom Java controls and EJBGen. Students will become more productive building EJBs and reusable control based IT assets.

Prerequisites:

- Object-oriented programming in Java
- JSP/Servlet development

Recommended knowledge:

- BEA WebLogic Server 8.1: Developing Web Applications

Topics covered:

- BEA WebLogic Server installation and configuration
- BEA WebLogic Workshop projects and structure
- Code completion, integrated debugging, instant deployment
- Session and entity beans
- Security and transaction boundaries
- Container and bean managed persistence
- Contained managed relationships
- Local interfaces and EJB optimizations
- EJB and Java control design patterns
- EJBGen
- Custom and embedded java controls
- Web services, asynchrony, loose coupling
- Clustering EJBs
- Custom Java control creation and packaging

# BEA WebLogic Server® 8.1

## BEA WebLogic Server 8.1/9: J2EE Programming with EJBs

WLS-D21-XX /   / 5 days

This course covers the fundamentals of distributed development using Enterprise JavaBeans (EJB), including stateless and stateful session beans, entity beans and message-driven beans. The course also covers EJB deployment and container-managed persistence, as well as transactional and security concerns with EJBs. Students will become familiar with the general use of Java Message Service (JMS) and how to write messaging clients.

This course is suitable for students using either version 8.1 or 9 of WebLogic Server as students can choose the version that they use for the lab exercises.

### Prerequisites:

- Object-oriented programming in Java
- Servlet/JSP Development
- Basic Configuration of BEA WebLogic Server

### Topics covered:

- EJB Architecture
- EJB Deployment
- Stateless Session Beans
- Stateful Session Beans
- EJB Environments and Resources
- EJB Security
- EJB Transactions
- Message-Driven Beans
- Local Interfaces
- Container-Managed Persistence Entity Beans
- Bean-Managed Persistence Entity Beans
- EJB Relationships
- Introduction to messaging
- BEA WebLogic Server JMS

## BEA WebLogic Server 8.1: Developing Web Services

WLS-D29-81 /   / 5 days

This course details how to build enterprise Web services and deploy them on BEA WebLogic Server 8.1. This training prepares students to create, test, debug, and deploy synchronous and asynchronous Web services to integrate business units and business partners. Students will be able to describe service oriented architectures and supporting technologies, such as SOAP, WSDL and UDDI.

### Prerequisites:

- Object-oriented Java programming
- Servlet/JSP Programming

### Recommended knowledge:

- Enterprise JavaBean (EJB) Programming
- BEA WebLogic Application Development and Deployment

### Topics covered:

- BEA WebLogic Server 8.1 installation and configuration
- SOAP, WSDL and UDDI specifications
- SOAP messages, attachments and faults
- Synchronous and asynchronous Web services
- Web services components
- Generated Web services and their components
- Exception handling
- Custom data types
- XML-Java conversions
- Handlers and handler chains
- Web services security
- UDDI architecture, operations and data structures
- Static and dynamic clients
- Dynamic proxies
- Web services standardization
- Web services interoperability
- Web services management
- Java Business Process Definitions
- Service-Oriented Architectures (SOA)
- BPEL and BPELJ
- WSRP

			Project Lifecycle			
			Plan	Design	Implement	Run
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Products	Course name	Course number				
BEA Kodo	<div style="display: flex; align-items: center;"> <div style="width: 10px; height: 10px; background-color: #0070C0; margin-right: 5px;"></div> <div>BEA Kodo 3: Developing JDO Applications with BEA Kodo</div> </div>	KODO-D11-33	(W)(C)			•
	<div style="display: flex; align-items: center;"> <div style="width: 10px; height: 10px; background-color: #0070C0; margin-right: 5px;"></div> <div>Introduction to Java Persistence API</div> </div>	KODO-D12-41	(W)(C)			•
			Training Options (W) Instructor-led over Web (C) Instructor-led in a Public Classroom or at Your Location (S) Online Self-study			

## BEA Kodo 3: Developing JDO Applications with BEA Kodo

KODO-D11-33 / (W)(C) / 3 days

This course introduces students to the concepts and API of the JDO 1.0.1 standard and the BEA Kodo JDO 3.3 implementation. Students explore the JDO Query Language, the essential BEA Kodo supplied developer tools, and many of the JDO 2.0 features that BEA Kodo JDO 3.3 previews.

### Prerequisites:

- Experience with Java development
- An understanding of basic object-oriented concepts (such as encapsulation and public interfaces)
- Familiarity with relational databases
- Experience building Web applications
- Familiarity with at least one Web application framework
- Familiarity with the use of multiple threads in an application

### Topics covered:

- JDO
- BEA Kodo development tools
- Value fields, relationships, class inheritance, collection fields, and map fields
- Design considerations
- Detachment and attachment
- BEA Kodo's L2 cache
- Performance and scalability
- BEA Kodo management console

## Introduction to Java Persistence API

KODO-D12-41 / (W)(C) / 2 days

This course teaches Java developers how to use the new Java persistence standard defined by the EJB 3.0 specification, JPA. The course provides students with both the necessary foundational theory and practical hands-on coding experience using JPA and the BEA Kodo 4.1 JPA implementation.

### Prerequisites:

- Java 5 SE (or later) coding experience
- Practical experience using SQL, RDBMS concepts, transactional programming, and basic database design theory
- Basic distributed computing concepts
- Experience using Eclipse Software Development Kit (SDK)
- Experience with Apache Ant build files
- Familiarity with the JUnit test framework

### Recommended knowledge:

- Fundamental JDBC programming
- The J2EE programming model

### Topics covered:

- BEA Kodo 4.1 products, configuration, and bootstrapping
- Entities and the entity manager
- Relationships, their annotations, and mappings
- Detached and merged entities
- Inheritance in the persistent object model
- Embedded objects
- Concurrent transactions and locking
- Queries

Check your local BEA Education Services website for the latest available courses and additional information.

# BEA Blended Application Development™

			Project Lifecycle			
			Plan	Design	Implement	Run
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Products	Course name	Course number				
BEA WebLogic Server	<div style="display: flex; align-items: center;"> <div style="width: 15px; height: 15px; background-color: #0070C0; margin-right: 5px;"></div> <div>Blended Application Development with Apache Struts</div> </div>	WLS-D201-91	(W)(C)		•	•
	<div style="display: flex; align-items: center;"> <div style="width: 15px; height: 15px; background-color: #0070C0; margin-right: 5px;"></div> <div>Blended Application Development with Java Server Faces (JSF)</div> </div>	WLS-D202-91	(W)(C)		•	•
	<div style="display: flex; align-items: center;"> <div style="width: 15px; height: 15px; background-color: #0070C0; margin-right: 5px;"></div> <div>Blended Application Development with Spring IoC Container</div> </div>	WLS-D208-91	(W)(C)		•	•
	<div style="display: flex; align-items: center;"> <div style="width: 15px; height: 15px; background-color: #0070C0; margin-right: 5px;"></div> <div>Blended Application Development with Hibernate</div> </div>	WLS-D212-91	(W)(C)		•	•
			Training Options: (W) Instructor-led over Web    (C) Instructor-led in a Public Classroom or at Your Location    (S) Online Self-study			

## Blended Application Development with Apache Struts

WLS-D201-91 / (W)(C) / 3 days

This course teaches students how to develop on Web applications using BEA WebLogic Server and Apache Struts, a popular, open-source Web application framework. Struts provides a comprehensive development framework that includes user navigation, form processing, and internationalization capabilities. Students will also learn how to install and configure Struts for development with BEA WebLogic Workshop Studio and BEA WebLogic Server 9.

### Prerequisites:

- Students should have experience in J2EE (Servlets and JSP) programming

### Recommended knowledge:

- Basic knowledge of Java programming language
- Familiarity with an Integrated Development Environment (IDE)

### Topics covered:

- Introduction to struts
- Struts fundamentals
- Struts model
- Struts controller
- Struts views
- Struts tag libraries
- Struts and JSTL
- Struts and Dynamic ActionForms
- Struts and exceptions
- Struts templates
- Struts internationalization

## Blended Application Development with Java Server Faces (JSF)

WLS-D202-91 / (W)(C) / 3 days

This course teaches students how to develop sophisticated Web applications using JavaServer Faces (JSF), a component-based Web application framework managed by the Java Community Process (JCP). JSF relies on a component-based methodology to assembling rich Web user interfaces. Students will also learn how to install and configure JSF for development with BEA WebLogic Workshop Studio and BEA WebLogic Server 9.

### Prerequisites:

- Students should have experience in J2EE (Servlets and JSP) programming

### Recommended knowledge:

- Basic knowledge of Java programming language
- Familiarity with an Integrated Development Environment (IDE)

### Topics covered:

- Overview of JSF
- Simple JSF application
- JSF components and life-cycle
- Using UI components
- JSF Validation Framework
- Using Backing Beans in JSF
- Custom UI Components

# BEA Blended Application Development™

## Blended Application Development with Spring IoC Container

WLS-D208-91 /   / 3 days

This course teaches students how to develop enterprise applications using Spring, a popular open-source, “lightweight” application framework. Spring’s Inversion of Control (IoC) and POJO (plain old Java objects) programming model allows developers to design, build, and test highly dynamic, flexible, and maintainable applications.

Prerequisites:

- Students should have experience in J2EE (Servlets and JSP) programming.

Recommended knowledge:

- Basic knowledge of Java programming language
- Familiarity with an Integrated Development Environment (IDE)

Topics covered:

- Spring fundamentals
- Fundamentals of Spring Container
- AOP in Spring
- Developing Web applications with Spring
- Persistence techniques
- Integrating Spring with Struts and JSF
- Enterprise application programming with Spring

## BEA WebLogic Server 9.1: Blended Application Development with Hibernate

WLS-D212-91 /   / 3 days

This course covers Object-Relational Mapping (ORM) using Hibernate, a popular open-source JDBC persistence framework. Hibernate transparently and efficiently handles the persistence of plain Java objects to many popular database vendors. Students will learn many techniques for mapping existing relational data to object models, while preserving encapsulation, inheritance, and polymorphism. Students will also learn how to install and configure Hibernate for development with BEA WebLogic Workshop Studio and BEA WebLogic Server 9.

Prerequisites:

- Students should have experience in J2EE (servlets and JSP) programming, and with RDBMS systems.

Recommended knowledge:

- Basic knowledge of Java programming language
- Familiarity with an Integrated Development Environment (IDE)

Topics covered:

- Object/relational Persistence and Introduction to Hibernate
- Hibernate configuration and application
- Understand basic O/R mapping
- Understand collection mappings
- Understand association mappings
- Component and inheritance mapping
- Working with Hibernate objects and Hibernate Query Language (HQL)
- Transactions and concurrency
- Batch processing and filtering data
- Hibernate and Session EJBs
- Hibernate with DAO pattern

# BEA WebLogic Portal® 9

			Project Lifecycle					
			Training Options		Plan	Design	Implement	Run
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Product	Course name	Course number	Training Options		Plan	Design	Implement	Run
BEA WebLogic Portal 9	<div style="display: flex; gap: 5px;"> <div style="background-color: #0070C0; width: 10px; height: 10px;"></div> <div style="background-color: #808080; width: 10px; height: 10px;"></div> <div style="background-color: #FF0000; width: 10px; height: 10px;"></div> <div style="background-color: #800080; width: 10px; height: 10px;"></div> </div> BEA WebLogic Portal 9: Essential Concepts	WLP-02-92	(S) (W) (C)		•	•		
	<div style="display: flex; gap: 5px;"> <div style="background-color: #0070C0; width: 10px; height: 10px;"></div> <div style="background-color: #808080; width: 10px; height: 10px;"></div> <div style="background-color: #FF0000; width: 10px; height: 10px;"></div> <div style="background-color: #800080; width: 10px; height: 10px;"></div> </div> BEA WebLogic Portal 9: Upgrading from BEA WebLogic Portal 8.1	WLP-04-92	(W) (C)			•	•	
	<div style="display: flex; gap: 5px;"> <div style="background-color: #0070C0; width: 10px; height: 10px;"></div> <div style="background-color: #808080; width: 10px; height: 10px;"></div> </div> BEA WebLogic Portal 9: Developing Enterprise Portals	WLP-D11-92	(W) (C)				•	
	<div style="background-color: #800080; width: 10px; height: 10px; display: inline-block;"></div> BEA WebLogic Portal 9: System Administration	WLP-A11-92	(W) (C)				•	

Training Options



Instructor-led over Web



Instructor-led in a Public Classroom or at Your Location



Online Self-study

## BEA WebLogic Portal 9: Essential Concepts

WLP-02-92 / (S) 5.5 hours / (W)(C) 1 day

This course introduces students to the core features and technical capabilities of BEA WebLogic Portal 9.2. Students will also become familiar with BEA's Eclipse-based portal development environment, BEA Workshop for WebLogic Platform 9.2.

Prerequisites:

- None

Recommended knowledge:

- Familiarity with basic J2EE Web application concepts

Topics covered:

- Portal business requirements
- Portals, desktops, and portlets
- Portal security
- Service-Oriented Architecture (SOA)
- Federated portals
- Content management
- Enterprise search
- Communities
- GroupSpace
- Personalization

Check your local BEA Education Services website for the latest available courses and additional information.

# BEA WebLogic Portal® 9

## BEA WebLogic Portal 9: Upgrading from BEA WebLogic Portal 8.1

WLP-04-92 /   / 1 day

This course introduces students to the new features and technical capabilities of BEA WebLogic Portal 9. Students will also become familiar with BEA's Eclipse-based portal development environment, BEA Workshop for WebLogic Platform 9.

In addition, this hands-on course also trains students who are already proficient in BEA WebLogic Portal 8.1 on the techniques and methodology used to ensure a successful upgrade to BEA WebLogic Portal 9. Students will use various tools to help upgrade existing portal servers, applications, and data.

### Prerequisites:

- Working knowledge of BEA WebLogic Portal 8.1 capabilities, including Desktops, Federated Portals and Content Management

### Recommended knowledge:

- BEA WebLogic Portal 8.1: Developing Enterprise Portals (WLP-D11-81)
- OR -
- BEA WebLogic Portal 8.1: System Administration (WLP-A11-81)

### Topics covered:

- BEA Workshop for BEA WebLogic Platform 9
- Library modules
- Portal and portlet enhancements
- Federated portal enhancements
- Communities and GroupSpace
- Content management enhancements
- Enterprise search enhancements
- User profile enhancements
- Administration enhancements
- Propagation tool
- Domain upgrade wizard
- BEA Workshop for BEA WebLogic Platform Import Wizard
- Database upgrade
- Portal application upgrade and deprecated APIs

## BEA WebLogic Portal 9: Developing Enterprise Portals

WLP-D11-92 /   / 5 days

This course trains J2EE Web application developers on the creation of sophisticated enterprise portals using the core capabilities of BEA WebLogic Portal 9. This course leverages BEA Workshop for WebLogic Platform 9 to rapidly design and build interactive, content-driven portlets.

### Prerequisites:

- BEA WebLogic Server 9.0: J2EE Programming with Servlets and JSPs in Eclipse (WLS-D12-90)

### Recommended knowledge:

- Working knowledge of HTML and Cascading Style Sheets (CSS)

### Topics covered:

- BEA Workshop for WebLogic Platform fundamentals
- Portal design and development
- Portal look-and-feel
- NetUI portlets
- Page flows and actions
- Form processing and validation
- Inter-portlet communication
- Asynchronous JavaScript and XML (AJAX) portlets
- Portal APIs, tag libraries, and Java controls
- Federated portals
- Web Service Remote Portlets (WSRP)
- Virtual content repository
- Content placeholders
- Portal administration fundamentals
- Communities fundamentals
- GroupSpace portlets

# BEA WebLogic Portal® 9

## **BEA WebLogic Portal 9: System Administration**

WLP-A11-92 /   / 4 days

This course trains experienced BEA WebLogic Server 9 system administrators on the configuration and management of applications built with BEA WebLogic Portal 9. Students will learn how to stage and tune portal applications and their relational data, and to propagate these changes to a highly-available production environment.

### Prerequisites:

- BEA WebLogic Server domains, servers and clusters
- Security realms and providers
- Data sources

### Recommended knowledge:

- BEA WebLogic Server performance tuning
- Keystores and certificates
- SAML
- Ant scripting fundamentals

### Topics covered:

- Product installation
- Portal production architecture
- Portal domains and applications
- Product database schema
- Shared libraries
- Portal deployment plans
- Portal administration console
- Portal desktop management
- Community management
- Federated portal administration
- Content repository administration
- User profile management
- Visitor entitlements
- Delegated administration
- Portal cache manager
- Autonomy search administration
- Propagation tool

# BEA WebLogic Portal® 8.1

				Project Lifecycle			
				Training Options			
				Plan	Design	Implement	Run
<b>Product</b> BEA WebLogic Portal 8.1	<b>Course name</b> ■ BEA WebLogic Portal 8.1: System Administration* BEA WebLogic Portal 8.1: Managing Enterprise Portals ■ ■ BEA WebLogic Portal 8.1: Developing Enterprise Portals*	<b>Course number</b> WLP-A11-81 WLP-B11-81 WLP-D11-81	(W) (C) (W) (C) (W) (C)				•
							•
				•	•		

\* = Relevant to certification exams

Training Options: (W) Instructor-led over Web, (C) Instructor-led in a Public Classroom or at Your Location, (S) Online Self-study

## BEA WebLogic Portal 8.1: System Administration

WLP-A11-81 / (W)(C) / 5 days

This course trains BEA WebLogic Portal system administrators on techniques for installing, configuring, deploying, monitoring, and tuning distributed, clustered portals deployed on BEA WebLogic Portal 8.1. This training prepares students to configure and tune clustering and other application parameters that relate directly to BEA WebLogic Portal 8.1 installations.

**Prerequisites:**

- TCP/IP networking
- Knowledge of client/server concepts

**Topics covered:**

- Installing and configuring BEA WebLogic Portal 8.1
- Scripting JMX solutions
- Setting up and accessing distributed data sources using Java Database Connectivity
- Tune BEA WebLogic Portal 8.1 applications
- Configuring the content management repository
- Managing and loading content
- Understanding a BEA WebLogic Portal 8.1 application structure
- Configuring BEA WebLogic Portal 8.1 applications for fault tolerant operation within clustered environments
- Securing BEA WebLogic Server 8.1 domains with the SSL
- Securing BEA WebLogic Server 8.1 distributed applications using authentication and authorization
- Active and passive monitoring of the system using Simple Network Management Protocol
- Delegating administrative rights to portal users
- Defining role-based entitlements to provide fine-grained access control
- Configuring access to portal resources using desktops

## BEA WebLogic Portal 8.1: Managing Enterprise Portals

WLP-B11-81 / (W)(C) / 3 days

This course trains portal site administrators to manage content, users, applications, look-and-feel, and privileges for live systems deployed on BEA WebLogic Portal 8.1. This training immerses you in real-world site management activities including personalization configuration, user and content management, and marketing campaign sequences. Students will be able to manage campaigns, content and users to achieve the most positive visitor site experience.

**Prerequisites:**

- Web site management concepts

**Topics covered:**

- BEA WebLogic Portal installation and configuration
- Portal and portlet configuration
- Portal administration tool
- Delegated administration
- Layout, look-and-feel
- Entitlements and security
- Campaign management
- User management, profiling, personalization, and content management

Check your local BEA Education Services website for the latest available courses and additional information.

# BEA WebLogic Portal® 8.1

## **BEA WebLogic Portal 8.1: Developing Enterprise Portals**

WLP-D11-81 /  / 5 days

This course trains experienced Web application developers to create sophisticated enterprise portals using the full capabilities of BEA WebLogic Portal 8.1. BEA WebLogic Workshop 8.1 is the development environment.

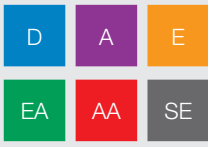



This training prepares you to create real-world interactive, portal solutions that integrate with back end applications such as a content management system. You will become more productive designing and developing a highly interactive portal and maintaining real time information flow.

Prerequisites:

- Java programming
- Basic J2EE development

Topics covered:

- BEA WebLogic Portal installation and configuration
- Code completion, integrated debugging, tag libraries, instant deployment
- User management, unified user profile, entitlements, security
- Portal administration tool
- Personalization, content management
- Delegated administration
- Campaign management
- Complex systems integration with controls
- Portal development, state, layout, look and feel
- WSRP producers and consumers
- Portal rules management and execution

			Project Lifecycle			
			Plan	Design	Implement	Run
	Developer Administrator IT Executive and Sr. Manager Enterprise Architect Application Architect Service Engineer	Training Options				
Product	Course name	Course number				
BEA WebLogic Workshop	 BEA Workshop for WebLogic Platform 9: Essential Concepts	W4W-01-92-01	(S)(W)(C)	•	•	
	 BEA Workshop for WebLogic Platform 9: Developing Web Applications	W4W-D101-92	(W)(C)		•	•
	 BEA WebLogic Workshop® 8.1: Rapid Application Development*	WLW-D01-81	(W)(C)		•	•
* = Relevant to certification exam			Training Options (W) Instructor-led over Web (C) Instructor-led in a Public Classroom or at Your Location (S) Online Self-study			

## BEA Workshop for WebLogic Platform 9: Essential Concepts

W4W-01-92-01 / (S) 4 hours / (W)(C) 1 day

This course introduces students to the capabilities of BEA Workshop for BEA WebLogic Platform 9. Students will see demonstrations of the product creating Web applications, Apache Beehive controls, EJBs and Web services.

Prerequisites:

- None

Recommended knowledge:

- Understanding J2EE concepts is helpful.
- Some programming or scripting experience is helpful
- Understanding object-oriented principles is helpful

Topics covered:

- IDE usage
- Web application development
- Web services development
- Apache Beehive controls
- EJB development

## BEA Workshop for WebLogic Platform 9: Developing Web Applications

W4W-D101-92 / (W)(C) / 5 days

This course trains students to build J2EE Web applications using BEA Workshop for WebLogic Platform 9.2

Prerequisites:

- Working knowledge of Java 5
- Working knowledge of JSPs and Servlets

Recommended knowledge:

- Basic understanding of relational databases

Topics covered:

- Basic BEA WebLogic Server administration
- BEA WebLogic Workshop for BEA WebLogic Platform fundamentals
- Design patterns
- Java Server Pages
- Page flows and actions
- Form processing and validation
- NetUI tags
- Apache Beehive controls
- Consuming controls

Check your local BEA Education Services website for the latest available courses and additional information.

# BEA Workshop™

## **BEA WebLogic Workshop 8.1: Rapid Application Development**

WLW-D01-81 /  / 5 days

This course provides hands-on experience building enterprise applications using all the BEA WebLogic Platform 8.1 products. BEA WebLogic Workshop 8.1 is the development environment. Students will become more productive in building enterprise applications that contain custom Web applications, portals and business processes.

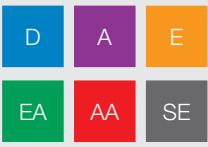

Prerequisites:

- Java programming

Topics covered:

- BEA WebLogic Workshop configuration and installation
- JSPs, Page Flow, Struts, NetUI
- Dynamic forms and FormBeans
- Code completion, integrated debugging, tag libraries, instant deployment
- Custom and embedded Java controls
- Web services, asynchrony, loose coupling
- XMLBeans, XQuery, Java-data manipulation
- Portal development, layout, look-and-feel
- Workflows, messaging
- SSL, authentication
- EJB and JMS controls

# BEA WebLogic® Integration 9

			Project Lifecycle					
			Plan	Design	Implement	Run		
	<b>Product</b>	<b>Course name</b>	<b>Course number</b>	Training Options				
	BEA WebLogic Integration 9	 BEA WebLogic Integration 9: Essential Concepts BEA WebLogic Integration 9: Developing Intergration Solutions	WLI-01-92 WLI-D11-92	(S) (W) (C) (W) (C)	•	•		
			Training Options	(W) Instructor-led over Web	(C) Instructor-led in a Public Classroom or at Your Location	(S) Online Self-study		

## BEA WebLogic Integration 9: Essential Concepts

WLI-01-92 / (S) 4 hours / (W)(C) 1 day

This course provides a 1-day introduction to BEA WebLogic Integration 9.2. This training is a cost-effective way for you to understand how to solve Enterprise integration problems with WLI 9.2.

Prerequisites:

- Understanding of the enterprise integration concepts

Recommended knowledge:

- Basic Java

Topics Covered:

- Java processes
- Transactions
- Exception handling
- Enterprise adapters
- Data transformation
- Message-driven integration
- Worklist
- Integration administration console
- Event-driven Java processes
- Business calendars

## BEA WebLogic Integration 9: Developing Integration Solutions

WLI-D11-92 / (W)(C) / 5 days

This course trains students to integrate using business process management, application integration and Web services on BEA WebLogic Integration 9.2. This training prepares students to perform application integration, business process management, trading partner orchestration, Web services development and complex data transformation. Students will become highly productive building integration solutions.

Prerequisites:

- Object-Oriented Java Programming
- Servlet / JSP / J2EE Development
- XML Development

Topics Covered:

- Event-driven processes and messaging
- Monitoring instances and handling exceptions
- Sub-processes
- Adding application integration to workflows
- Strategies for securing applications and components
- Accessing process flows from portal applications
- Accessing business objects
- Data transformation
- Debugging and monitoring workflows
- Interaction with Web services and with Worklist clients
- Handling non-XML data with Format Builder
- Data synchronization across heterogeneous systems

Check your local BEA Education Services website for the latest available courses and additional information.

# BEA WebLogic® Integration 8.x

		Developer		Administrator		IT Executive and Sr. Manager		Enterprise Architect		Application Architect		Service Engineer		Project Lifecycle			
		D	A	E	EA	AA	SE	Training Options						Plan	Design	Implement	Run
<b>Product</b>	BEA WebLogic Integration 8.x																
<b>Course name</b>	<span style="color: blue;">■</span> <span style="color: red;">■</span> <span style="color: purple;">■</span> BEA WebLogic Integration 8.1/8.5: Overview <span style="color: purple;">■</span> BEA WebLogic Integration 8.1/8.5: System Administration* <span style="color: blue;">■</span> <span style="color: grey;">■</span> BEA WebLogic Integration 8.1/8.5: Developing Integration Solutions																
<b>Course number</b>	WLI-01-8X													•	•		
	WLI-A11-8X																•
	WLI-D11-8X														•	•	

\* = Relevant to certification exam

Training Options: (W) Instructor-led over Web, (C) Instructor-led in a Public Classroom or at Your Location, (S) Online Self-study

## BEA WebLogic Integration 8.1/8.5: Overview

WLI-01-8X / (W)(C) / 1 day

This course provides a 1-day technical introduction to BEA WebLogic Integration 8.1/8.5. This training is a cost-effective way for students to learn about BEA's enterprise integration solution. If students have prior BEA WebLogic Integration experience, students will be able to identify new product features in BEA WebLogic Integration 8.1/8.5 and ways to exploit those features. BEA WebLogic Workshop is the development environment.

Prerequisites:

- Understanding of the enterprise integration concepts

Check your local BEA Education Services website for the latest available courses and additional information.

# BEA WebLogic® Integration 8.x

## **BEA WebLogic Integration 8.1/8.5: System Administration**

WLI-A11-8X /   / 5 days

This course trains system administrators and data center personnel on techniques for installing, configuring, deploying, monitoring, and tuning distributed systems deployed on BEA WebLogic Integration 8.1/8.5. This training prepares students to deploy complex, interconnected integration configurations hosted on BEA WebLogic Integration 8.1/8.5. Students will be able to use the BEA-supplied administration tools to manage an application through its lifecycle as well as provide customized scripts for user and application management.


### Prerequisites:

- Understanding of integration concepts
- Familiarity with asynchronous messaging systems or concepts

### Topics covered:

- Installing and configuring BEA WebLogic Integration 8.1/8.5, network and unattended “installs”
- Managing and monitoring BEA WebLogic Integration transactions
- Recovering from failed business processes
- Using JMX basics and tools
- Scripting JMX solutions
- Securing synchronous and asynchronous business processes
- Integrating the Enterprise Information System
- Automatically generating events and deploying event generators
- Securing BEA WebLogic Integration/BEA WebLogic Server messaging with SSL
- Managing external (B2B) integration
- Designing worklist and task management activities to facilitate human interaction in business processes
- Handling BEA WebLogic Integration deployment challenges

## **BEA WebLogic Integration 8.1/8.5: Developing Integration Solutions**

WLI-D11-8X /  / 5 days

This course trains students to integrate using business process management, application integration, and Web services on BEA WebLogic Integration 8.1/8.5. BEA WebLogic Workshop is the development environment. This training prepares students to perform application integration, business process management, trading partner orchestration, Web services development and complex data transformation. Students will become highly productive building integration solutions.

### Prerequisites:

- Object-oriented Java programming
- Servlet/JSP programming
- Familiarity with J2EE concepts
- XML Development

### Topics covered:

- Using event-driven processes and messaging
- Learning advanced workflow concepts
- Monitoring instances and handling exceptions
- Using sub-processes
- Learning the XML fundamentals required for integration
- Adding application integration to workflows
- Developing strategies for securing applications and components
- Accessing process flows from portal applications
- Accessing business objects
- Transforming data
- Debugging and monitoring workflows
- Interacting with Web services and with worklist clients
- Handling non-XML data with Format Builder
- Synchronizing data across heterogeneous systems

			Project Lifecycle			
			Training Options			
			Plan	Design	Implement	Run
<b>Product</b> BEA Tuxedo	<b>Course name</b> ■ BEA Tuxedo: Application Administration ■ BEA Tuxedo: ATMI Application Development ■ BEA Tuxedo: CORBA Application Development	<b>Course number</b> TUX-A11-XX TUX-D11-XX TUX-D12-81	(C)			•
			(C)			•
			(C)		•	•

Training Options	(W) Instructor-led over Web	(C) Instructor-led in a Public Classroom or at Your Location	(S) Online Self-study
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## BEA Tuxedo: Application Administration

TUX-A11-XX / (C) / 5 days

This course trains administrators, architects, and developers on the administration of BEA Tuxedo applications. The course shows the features and configurable capabilities of the product and how they relate to real-world scenarios with instructor-led training materials and hands-on exercises. This training:

- Includes a complete overview of the Tuxedo software components and deployment architectures
- Helps students plan and architect Tuxedo application strategies
- Gives students detailed information about the many static and run-time configuration options available to various Tuxedo applications
- Provides administrators with the skills they need to configure, monitor, and troubleshoot various types of Tuxedo applications

### Prerequisites:

- Basic understanding of using Windows directories and files; interacting with Windows Explorer and Command Prompts

### Recommended knowledge:

- Familiarity with networking fundamentals, client/server application deployment, and operating system administration basic concepts

### Topics covered:

- Installing Tuxedo software
- Deploying Tuxedo applications
- Configuring the UBBCONFIG file
- Monitoring Tuxedo applications with the tmadmin Utility
- Configuring and deploying applications to multiple-machine domains
- Configuring the /Q and queuing subsystem
- Planning, configuring, and deploying performance enhancement measures
- Troubleshooting the application
- Configuring support for remote Workstation and Jolt clients
- Using advanced monitoring tools with the Tuxedo MIBS
- Configuring Support for XA transactions
- Configuring the Domain Gateway subsystem
- Providing for Tuxedo application and service-level security

Check your local BEA Education Services website for the latest available courses and additional information.

## BEA Tuxedo: ATMI Application Development

TUX-D11-XX / © / 5 days

This course trains application designers and developers on how to develop BEA Tuxedo client and server applications in the C programming language. After taking this course, students will be able to develop and deploy request and reply applications, conversational applications and distributed transactional applications. Students will also be able to use event-based communications to manage brokered events, use and manage buffers and use store and forward message queuing.

### Prerequisites:

- An understanding of basic client/server and networking concepts
- C/C++ programming skills and experience with program development in either a UNIX or WindowsNT/2000 environment

### Topics covered:

- Introduction to the BEA Tuxedo product
- Introduction to the Application-to-Transaction Monitor Interface (ATMI)
- Basic client/server development (request/reply)
- Basic application deployment
- Asynchronous, conversational paradigms
- Store and forward messaging, /Q
- Security
- Publish/Subscribe (Tuxedo Event Broker)
- Transactions
- Network Clients

## BEA Tuxedo: CORBA Application Development

TUX-D12-81 / © / 5 days

This course teaches developers to design, code, and deploy distributed Tuxedo CORBA client and server applications. In addition to topics covering the core features of BEA Tuxedo, students will also learn advanced features to include distributed transactions, the Event Notification Service, Factory-based routing and the Interoperable Name Service (INS). While targeted to the 8.1 version of Tuxedo, versions 7.1 and 8.0 may also be used for training.

### Prerequisites:

- Familiarity with the C++ programming language
- Understanding of object-oriented analysis and design
- Background in client/server design concepts



### Recommended knowledge:

- C++ programming language experience
- Object-oriented analysis and design experience
- Distributed programming experience

### Topics covered:

- BEA Tuxedo 8.1 architecture
- Basic Tuxedo Administration and Configuration
- Developing secure client applications
- Object Management Group (OMG) Interface Definition Language (IDL)
- IDL to C++ Mapping
- Interoperable Object References (IOR)
- Developing remote CORBA client applications
- Developing CORBA server applications
- The Tuxedo Transaction Processing (TP) Framework
- Developing XA transactional CORBA applications
- Tuxedo CORBA Factory-Based Routing
- Joint Client/Servers (JCS)
- Tuxedo Event Notification Service
- Interoperable Name Service (INS)

# BEA WebLogic® RFID

		Developer Administrator IT Executive and Sr. Manager Enterprise Architect Application Architect Service Engineer	Training Options Plan Design Implement Run	Project Lifecycle
<b>Product</b> RFID	<b>Course name</b>  BEA WebLogic RFID: Essential Concepts	<b>Course number</b> RFID-01-XX		(W) (C)

Training Options: (W) Instructor-led over Web, (C) Instructor-led in a Public Classroom or at Your Location, (S) Online Self-study

## BEA WebLogic RFID: Essential Concepts

RFID-01-XX / (W)(C) / 1.5 days

This course introduces developers, administrators, and architects to the challenges of RFID and provides a thorough overview of the capabilities of the BEA WebLogic RFID solution, including the BEA WebLogic Edge Server™, BEA WebLogic Compliance Express™, and BEA WebLogic Enterprise Server™ products.

Prerequisites:

- None

Recommended knowledge:













- J2EE and WebLogic Server 9.1 architecture and capabilities
- XML fundamentals

Topics covered:

- Electronic Product Code (EPC)
- RFID hardware fundamentals
- RFID business requirements
- BEA WebLogic RFID architecture
- Product installation and administration fundamentals
- ECSpecs, PCSpecs, and workflow modules
- Subscriptions and notifications
- Tagging stations
- EPCIS repository

Check your local BEA Education Services website for the latest available courses and additional information.

# Core Technologies

			     		Project Lifecycle			
			Training Options		Plan	Design	Implement	Run
Product	Course name	Course number						
Core Technologies	 Object-Oriented Programming with Java	JAVA-D11-00						•
	 Fundamentals of Java using Eclipse	JAVA-D11-50						•
	 XML Fundamentals	XML-D104-XX						•

Training Options:  Instructor-led over Web   
  Instructor-led in a Public Classroom or at Your Location   
  Online Self-study

## Object-Oriented Programming with Java

JAVA-D11-00 /  / 5 days

This course provides an overview of the object-oriented paradigm and an introduction to the Java language, as well as a selection of important packages from Java 2 Standard Edition (J2SE). The Java Development Kit (JDK) is used throughout the course to perform example-based exercises designed to substantiate the concepts presented. (JAVA-D11-00-02)

### Prerequisites:

Solid programming experience in a procedural or object-oriented language.

### Topics covered:

- Java Language Fundamentals
- Object Oriented Concepts
- Getting Started with Java
- Programming in Java
- Advanced Core Java Topics

## Fundamentals of Java using Eclipse

JAVA-D11-50 /  / 5 days

Java is an object-oriented programming language. Eclipse is an open source extensible Java Integrated Development Environment (IDE). This course starts with an overview of the Java language, syntax and object-oriented programming concepts. It explains how to build and run programs using the open source Eclipse IDE. It covers all practical topics such as interfaces, packages, collections, multi-threading, Java Database Connectivity (JDBC), and unit testing that are needed for developing industrial-strength Java code.

### Prerequisites:

- None

### Recommended knowledge:

- Fundamental concepts of computer programming (any language)


### Topics covered:

- Java overview
- Fundamentals of Java programming elements
- Java development with Eclipse
- Java program compilation and execution
- Object-oriented programming with Java
- Inner classes
- Exceptions
- Interfaces
- Package and access control
- Input/output
- Collection framework
- Reflection
- Threads
- JDBC
- Java application testing with JUnit and Eclipse

Check your local BEA Education Services website for the latest available courses and additional information.

# Core Technologies

## XML Fundamentals

XML-D104-XX /  / 4 days

XML allows information and services to be encoded with meaningful structure and semantics that computers and humans can understand. This course starts with the overview of XML and its application. It explains how to build DTDs and XML Schemas to describe the grammar of XML documents. It also covers programming aspects of XML including JAXP (Java API for XML Processing), XSLT, XQuery, and XMLBeans.

Prerequisites:

- Experience with Java programming

Recommended knowledge:

- Basic knowledge of HTML

Topics covered:

- XML documents and DTD
- XML and Java
- XML namespace
- Simple API for XML (SAX)
- DOM (Document Object Model)
- XML schema introduction
- Advanced XML schema
- Best Practices – XML schema
- XPath
- XSLT introduction
- Transformations of XML using XSLT
- Advanced XSLT
- XML Beans
- XQuery

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Check your local BEA Education Services website for the latest available courses and additional information.

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