

## Training: Capstone Courseware 120 The Java Message Service



### TRAINING GOALS:

#### Version 1.2

This course introduces Java developers to asynchronous messaging using the **Java Message Service**, or **JMS**. Both the point-to-point and publish-and-subscribe messaging styles are covered, but there is an emphasis on the more popular point-to-point approach using message queues. The course moves quickly from JMS fundamentals -- connections, sessions, queues, topics, etc. -- to intermediate techniques such as message properties and selectors. By the end of the day, students will understand JMS reliability and be able to make intelligent architectural choices between delivery modes, acknowledgement modes, and transacted sessions.

This version of the course is designed to work with the Java EE 5 SDK, Update 7, which includes the GlassFish application server, version 2.1. Variants of the course are also available with specific support for recent versions of JBoss and WebLogic.

### CONSPECT:

- Chapter 1. Fundamentals
  - Asynchronous Messaging
  - The Java Message Service
  - Point-to-Point Messaging
  - Publish-and-Subscribe Messaging
  - JNDI
  - Connections and Sessions
  - Working with Queues
  - Working with Topics
  - GlassFish JMS Administration
  - Expiration
- Chapter 2. Message Content
  - Message Types
  - Header Fields
  - Properties
  - Message Selectors

- Chapter 3. Reliability
  - Message Persistence
  - JMS from Web Applications
  - The Component Environment
  - Acknowledgement and Redelivery
  - Acknowledgement Modes
  - Session Recovery
  - Transactions
  - What JMS Transactions Are and Aren't
  - Transaction Pitfalls
  - Batch Processing
  - Priority
  - JMS and EJB: Message-Driven Beans
  - JMS and Web Services: SOAP Messaging

## Appendix A. Learning Resources

## REQUIREMENTS:

- Solid [Java programming](#) experience is required - consider Course 103 or its equivalent a firm prerequisite.
- An understanding of Java web applications will be helpful, but is not required

## Difficulty level



## CERTIFICATE:

The participants will obtain certificates signed by Capstone Courseware.

## TRAINER:

Authorized Capstone Courseware Trainer.