

# **Java for Managers**

### **Audience Course Java for Managers**

Managers of Java software teams, project leaders of Java software projects, junior Java Developers and other interested persons who want to gain insight in Java software.

#### **Prerequisites Course Java for Managers**

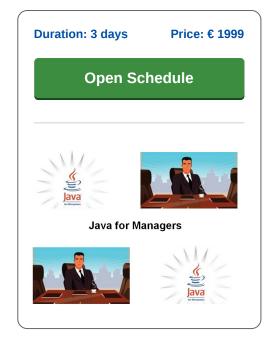
General basic knowledge of computer systems and software development is required. Programming experience is an advantage in following this course.

#### **Realization Training Java for Managers**

The theory is treated by means of presentation slides and is interspersed with exercises. Demos are used to clarify the theory. The course has a hands-on nature. The course material is in English. The course times are from 9.30 up and to 16.30.

#### **Certification Java for Managers**

Participants receive an official certificate Java for Managers after successful completion of the course.



# **Content Course Java for Managers**

In the course Java for Managers the basic principles of object oriented programming in the Java language and the operation and capabilities of Java technology are discussed. Attention is paid to both client and server technology.

#### **Java Fundamentals**

The course is always aimed at making clear the principles without going into details. Both the syntax and control flow constructs of Java are discussed as well as object oriented things such as classes, inheritance, interfaces and exceptions. In this respect also UML as modeling language for software systems is on the course schedule.

## **Java GUI Clients**

Regarding client technology both Rich Client Applications with GUIs as well as applets and Java Web Start applications are discussed.

## **Java Enterprise Edition**

Regarding server technology the focus is on Java Enterprise applications running on application servers and Java EE technologies like Servlets, JSPs and EJBs are addressed.

#### **Java Data Access**

Furthermore, the different ways in which Java applications can store data is on the course schedule. Attention is paid to direct file I/O, serialization, JDBC, Hibernate and the Persistence API.

#### **Messaging and Web Services**

Finally, various Java integration technologies like RMI, JMS and Web Services are discussed. The course contents covers the requirements of the Java Associate exam 1Z0-850.



# **Modules Course Java for Managers**

Module 2 : Java Language	Module 3 : Object Orientation and UML
Variables	Programming Paradigms
Types of Variables	Procedural Programming
Primitive Data Types	Object Oriented Programming
Block Statements	Classes and Objects
Operator Precedence	Abstraction and Modularity
if else Statements	Encapsulation and Data Hiding
switch Statement	Inheritance and Polymorphism
for and while Loop	UML Diagrams
do while Loop	Use Cases
break and continue	Sequence Diagrams
Arrays	Class Relationships
Enhanced For Loop	Generalizations
Strings	Associations and Aggregations
Formatted Output	Class Diagrams
Module 5 : Rich Clients	Module 6 : Java EE Applications
Java GUI's	Java EE
Abstract Window Toolkit	Enterprise Challenges
GUI Design with AWT	Java EE Standard
	Java EE Servers
	Web Components
AWT Controls	EJB Components
	Persistent Entities
o a	Java EE and Web Services
· ·	Container Services
	Java EE Deployment
	Annotations
_	Packaging in EAR Files
	Development Roles
Java Web Start	Java EE API's
Module 8 : Java Persistence	Module 9 : Integration Technologies
Java Persistence	Remote Method Invocation
Traditional Persistence	RMI Architecture
Transparent Persistence	Remote Interface and Object
Direct File I/O	Stubs and Skeletons
Serialization	Remote Object Use
Java Database Connectivity	Java Message Service
JDBC Architecture	Messaging Models
Problems with JDBC	Point to Point
Hibernate	Publish and Subscribe
1	
Persistent Classes	JMS Programming Model
Persistent Classes Mapping Files	JMS Programming Model Web Services
Mapping Files	Web Services
	Variables Types of Variables Primitive Data Types Block Statements Operator Precedence if else Statements switch Statement for and while Loop do while Loop break and continue Arrays Enhanced For Loop Strings Formatted Output  Module 5 : Rich Clients  Java GUl's Abstract Window Toolkit GUI Design with AWT AWT Containers Window Containers AWT Controls Swing AWT versus Swing Swing Component Hierarchy Layout Managers Event Delegation Model Java Applets Java Plug-In Java Web Start  Module 8 : Java Persistence Traditional Persistence Transparent Persistence Direct File I/O Serialization Java Database Connectivity JDBC Architecture Problems with JDBC