

Core Java Hands-on Training

Contents

[Introduction](#)

[Course Objectives](#)

[Lesson 1: Programming concepts](#)

- Software
- Hardware
- Operating system
- Client - Server model
- Servers – Application, Web, Database
- Internet programming
- Browsers - Graphical and Hypertext Access to the Internet
- HTTP - HyperText Transfer Protocol
- IDE tools
- QUIZ
- More Information

[Lesson 2: Software Life cycle and Methodologies](#)

- Methodologies
- SDLC
- Waterfall
- RUP
- UML
- QUIZ
- More Information

[Lesson 3: Object Oriented Programming Concepts](#)

- Abstraction
- Polymorphism
- Inheritance
- Encapsulation
- QUIZ
- More Information

[Lesson 4: Compiling and Running a Simple Program](#)

- About the Java Platform

- Setting Up Your Computer
- Writing a Program
- Class Declaration
- Compiling the Program
- Interpreting and Running the Program
- Code Comments
- Packages
- Import Statements
- API Documentation
- QUIZ
- More Information

[Lesson 5: Building Applications](#)

- Classes
- Objects
- Application Structure and Elements
- Fields and Methods
- Constructors
- Interface
- Method overloading, Overriding
- Primitive data types
- Loops and logic
- Arrays, Strings
- More Information

[Lesson 6: Applets, Utility classes](#)

- Applet Structure and Elements
- Applet life cycle
- Run the Applet
- Images
- Collections, Iterators
- JAR, Javadoc
- Modifiers
- QUIZ
- More Information

[Lesson 7: Building a User Interface](#)

- Swing APIs
- Components, containers
- Creating windows
- Layouts

- Action Listening
- Event Handling
- Applets Revisited
- QUIZ
- More Information

[Lesson 8: I/O Streams, Files](#)

- I/O Streams
- File Access by Applications
- Exception Handling
- File Access by Applets
- Granting Applets Permission
- Restricting Applications
- File Access by Servlets
- Appending
- QUIZ
- More Information

[Lesson 9: Database Programming](#)

- RDBMS
- SQL
- Database Setup
- Create Database Table
- Database Access by Applications
 - Establishing a Database Connection
 - Final and Private Variables
 - Writing and Reading Data
- Database Access by Applets
 - JDBC Driver
 - JDBC-ODBC Bridge with ODBC Driver
- QUIZ
- More Information

[Lesson 10: Remote Method Invocation](#)

- RMI
- Server
- Client

- Process
- Threads
- QUIZ
- More Information

[Final Test](#)

[Project](#)

[Closing](#)