

Training: Capstone Courseware
168 JDBC Programming

FORM OF TRAINING	MATERIALS	PRICE	DURATION
Traditional	Hardcopy	290 EUR	1 day
Traditional	CTAB Tablet	440 EUR	1 day
Distance learning	Hardcopy	290 EUR	1 day
Distance learning	CTAB Tablet	290 EUR	1 day

LOCATIONS

Krakow - 5 Tatarska Street, II floor, hours: 9:00 am - 4:00 pm

Warsaw - 17 Bielska Street, hours: 9:00 am - 4:00 pm

TRAINING GOALS:

Version 6.0.1

This one-day course covers the fundamentals of database programming in Java using **JDBC (Java Database connectivity)** in an incremental fashion, to get the programmer up to speed quickly and then to layer a deeper understanding of JDBC upon that foundation. This course has been designed to work with any of these relational database management systems:

- Apache Derby 10.6
- Oracle, version 9i, 10g, or 11g
- Lab exercises use SQL99 constructs whenever possible in order to be relevant to databases from all vendors.

This revision of the course targets Java 6.

CONSPECT:

- Chapter 1. Database and SQL Fundamentals
 - Relational Databases and SQL
 - SQL Versions and Code Portability
 - Database, Schema, Tables, Columns and Rows
 - DDL - Creating and Managing Database Objects
 - DML - Retrieving and Managing Data
 - Sequences

- Stored Procedures
- Result Sets and Cursors
- Using SQL Terminals
- Chapter 2. JDBC Fundamentals
 - What is the JDBC API?
 - JDBC Drivers
 - Making a Connection
 - Creating and Executing a Statement
 - Retrieving Values from a ResultSet
 - SQL and Java Datatypes
 - SQL NULL Versus Java null
 - Creating and Updating Tables
 - Handling SQL Exceptions and Proper Cleanup
 - Handling SQLWarning
 - The JDBC 4.0 Cause Facility
- Chapter 3. Advanced JDBC
 - SQL Escape Syntax
 - Using Prepared Statements
 - Using Callable Statements
 - Scrollable Result Sets
 - Updatable Result Sets
 - Transactions
 - Commits, Rollbacks, and Savepoints
 - Batch Processing
 - Alternatives to JDBC
- Chapter 4. Introduction to Row Sets
 - Row Sets in GUI and J2EE programming
 - Advantages of RowSets
 - RowSet Specializations
 - Using CachedRowSets
- Appendix A. Learning Resources
- Appendix B. Course Schema
- Appendix C. Methods and Types

REQUIREMENTS:

- Experience in [Java Programming](#) is essential. The student must be comfortable with object-oriented Java, interfaces and abstract classes - Course 103 is excellent preparation.
- Understanding of basic SQL usage or other work with relational databases will be helpful, but is not required.

Difficulty level



CERTIFICATE:

The participants will obtain certificates signed by Capstone Courseware.

TRAINER:

Authorized Capstone Courseware Trainer.