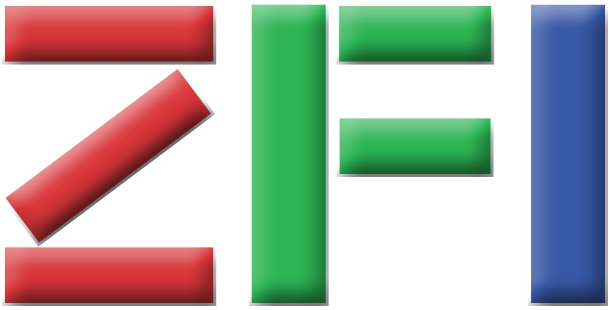
Fernkurs-Dokumentation



Zentrum für Informatik ZFI AG

Fernkurs: Upgrade Oracle Certified Professional, Java SE 7 Programmer, 1Z0-805 (FOCU)

http://www.zfi.ch/FOCU

Weitere Infos finden Sie unter www.zfi.ch oder via Adresse:

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Titel	**Fernkurs: Upgrade Oracle Certified Professional, Java SE 7 Programmer, 1Z0-8**
Untertitel	**Der Vorbereitungslehrgang auf die offizielle Oracle Certified Professional, Java SE 7 Programmer 1Z0-805 Upgrade Prüfung als Fernkurs.**
Einleitung	**Die Oracle Certified Professional (OCP), Java SE 7 Programmer Zertifizierung richtet sich an Software-Entwickler, welche ihre Kenntnisse der Java Programmiersprache attestiert haben möchten.** **Bereits zertifizierte Java Entwickler können mit dieser Prüfung 1Z0-805) auf die Java SE 7 Version upgraden.** **Mit der Variante Fernkurs erarbeiten Sie sich die theoretischen Grundlagen der neuen Java SE 7 Features selbständig.**
Ihr Nutzen	
Vorausetzungen	
Teilnehmerkreis	**Dieser ZFI-Lehrgang richtet sich an bereits zertifizierte Java Programmierer (z.B. Java 5 oder 6 oder einer früheren Version).**
Unterlagen	**- Begleitbuch** **- Tutorials** **- Intranet Site**
Folgekurse	
Inhalt	**Upgrade Oracle Certified Professional, Java SE 7 Programmer** **- Language Enhancements** **- Develop code that uses String objects in switch statements** **- Develop code that uses binary literals and numeric literals with underscores** **- Develop code that uses try-with-resources statements (including using classes that implement the AutoCloseable interface)** **- Develop code that handles multiple Exception types in a single catch block** **- Develop code that uses the diamond with generic declarations** **- Design Patterns** **- Design a class using a Singleton design pattern** **- Apply object composition principles (including has-a relationships)**

- Write code to implement the Data Access Object (DAO) pattern

- Design and create objects using a factory pattern

- Database Applications with JDBC

- Describe the interfaces that make up the core of the JDBC API (including the Driver, Connection, Statement, and ResultSet interfaces and their relationship to provider implementations)

- Identify the components required to connect to a database using the DriverManager class (including the jdbc URL)

- Construct and use RowSet objects using the RowSetProvider class and the RowSetFactory interface

- Use JDBC transactions (including disabling auto-commit mode, committing and rolling back transactions, and setting and rolling back to savepoints)

- Submit queries and read results from the database (including creating statements, returning result sets, iterating through the results, and properly closing result sets, statements, and connections)

- Create and use PreparedStatement and CallableStatement objects

- Concurrency

- Identify code that may not execute correctly in a multi-threaded environment.

- Use collections from the java.util.concurrent package with a focus on the advantages over and differences from the traditional java.util collections.

- Use Lock, ReadWriteLock, and ReentrantLock classes in the java.util.concurrent.locks package to support lock-free thread-safe programming on single variables.

- Use Executor, ExecutorService, Executors, Callable, and Future to

	execute tasks using thread pools. **- Use the parallel Fork/Join Framework** **- Localization** **- Describe the advantages of localizing an application** **- Define a locale using language and country codes** **- Read and set the locale with a Locale object** **- Build a resource bundle for a locale** **- Call a resource bundle from an application** **- Format dates, numbers, and currency values for localization with the NumberFormat and DateFormat classes (including number format patterns)** **- Java File I/O (NIO.2)** **- Operate on file and directory paths with the Path class** **- Check, delete, copy, or move a file or directory with the Files class** **- Read and change file and directory attributes, focusing on the BasicFileAttributes, DosFileAttributes, and PosixFileAttributes interfaces** **- Recursively access a directory tree using the DirectoryStream and FileVisitor interfaces** **- Find a file with the PathMatcher interface** **- Watch a directory for changes with the WatchService interface**
Beitrag	**Der Teilnehmerbeitrag versteht sich rein netto. Das ZFI ist (gemäss MwSt-Gesetz) nicht Mehrwertsteuerpflichtig und erhebt somit keine MwSt. Bei länger als einen Monat dauernden Lehrgängen ist die Zahlung des Teilnehmerbeitrages in mehreren Raten möglich (pro rata temporis).**