ORACLE®
CERTIFICATION PROGRAM

Examination Score Report
Michal Bochenek
Oracle Testing ID: OC1028825
1Z0-864 Java Enterprise Edition 5 Enterprise
Architect Certified Master Exam (Step 1 of 3)

Exam Date: 11/29/2011
Registration: 244788043
Center ID: 200049654

Your Score: 65%	Passing Score: 57%	Result: Pass

Feedback on your performance is printed below. The report lists
the objectives for which you answered a question incorrectly.

- Describe how the principle of "separation of concerns" has been applied to the main system tiers of a Java EE application. Tiers include client (both GUI and web), web (web container), business (EJB container), integration, and resource tiers.
- Describe the commonly used declarative and programmatic methods used to secure applications built on the Java EE platform, for example use of deployment descriptors and JAAS.
- Explain and contrast the following persistence strategies: Container Managed Persistence (CMP) BMP, JDO, JPA, ORM and using DAOs (Data Access Objects) and direct JDBC-based persistence under the following headings: ease of development, performance, scalability, extensibility and security.
- Explain and contrast uses for Entity Beans, Entity Classes, Stateful and Stateless Session Beans, and Message Driven Beans and understand the advantages and disadvantages of each type.
- Explain how Java Connector Architecture and JMS are used to integrate distinct software components as part of an overall Java EE application.
- Explain how Java EE supports the deployment of server-side components implemented as Web Services and the advantages and disadvantages of adopting such an approach.
- Explain how you would design a Java EE application to repeatedly measure critical non-functional requirements and outline a standard process with specific strategies to refactor that application to improve on the results of the measurements.
- Explain standard uses for JSF technology in a typical Java EE application.

- Explain standard uses for JSP and Servlet technologies in a typical Java EE application.
- Explain the advantages and disadvantages of multi-tier architectures when examined under the following topics: scalability, maintainability, reliability, availability, extensibility, performance, manageability, and security.
- Explain the advantages and disadvantages of three tier architectures when examined under the following topics: scalability, maintainability, reliability, availability, extensibility, performance, manageability, and security
- Explain the benefits of the EJB3 development model over previous EJB generations for ease of development including how the EJB container simplifies EJB development.
- Explain the main advantages of an object oriented approach to system design including the effect of encapsulation, inheritance, delegation, and the use of interfaces, on architectural characteristics.
- From a list, select the most appropriate pattern for a given scenario. Patterns are limited to those documented in the book - Alur, Crupi and Malks (2003). Core J2EE Patterns: Best Practices and Design Strategies 2nd Edition and named using the names given in that book.
- From a list, select the most appropriate pattern for a given scenario. Patterns are limited to those documented in the book - Gamma, Erich; Richard Helm, Ralph Johnson, and John Vlissides (1995). Design Patterns: Elements of Reusable Object-Oriented Software and are named using the names given in that book.
- Given a specified business problem, design a modular solution implemented using Java EE which solves that business problem.
- Select from a list the benefits and drawbacks of a pattern drawn from the book - Gamma, Erich; Richard Helm, Ralph Johnson, and John Vlissides (1995). Design Patterns: Elements of Reusable Object-Oriented Software.
- Select from a list the benefits and drawbacks of a specified Core J2EE pattern drawn from the book – Alur, Crupi and Malks (2003). Core J2EE Patterns: Best Practices and Design Strategies 2nd Edition.

If this is the final exam in your certification path, you are required to complete the following steps to ensure delivery of your Certification Success Kit.

- Visit certification.oracle.com and select your certification path to ensure you are aware of all certification requirements.
  - Note that completion of the required training and approval of the course submission form are also required in paths that require training.
- Check certview.oracle.com to confirm that all completed components are in your profile.
  - If exams that you have taken do not show up, you may have taken them under a different Oracle Testing ID.
  - Contact www.pearsonvue.com/oracle/contact to merge your IDs (provide all IDs under which you have taken exams or submitted forms and confirm which ID should be the 'surviving id').
- Go to pearsonvue.com/oracle, select My Account, log in, and select "Personal Info" to confirm that your address is correct.
  - The address that is on file in your Pearson VUE profile is the address to which we will mail your certificate. Please be absolutely sure that it is correct.

To review Certification requirements and find out about Oracle University's recommended training to prepare for Certification Exams, visit http://www.oracle.com/education/certification
To view your Exam and Certification history, and verify your Certification to third parties, visit http://certview.oracle.com
To opt-in to receive the Oracle Certification E-Magazine, visit http://www.oracle.com/admin/account/
To view the Oracle Certification Program blog, visit http://blogs.oracle.com