

# Red Hat Certified Enterprise Application Developer

# **Course Modules**

#### 1.Bean Validation

- Annotate a POJO to enable and set up data validation.
- Use the documentation to find useful standard validators.

### 2.JPA Mapping

- Annotate a POJO to map it to its persistent state represent
- Apply basic property mapping and be able to use the doc
- Map a bidirection OneToMany relationship bet 2 entities
- Able to override the fetching strategy per association.

### 3.JPA Query

- Implement basic JPA queries using named parameters.
- Create and use a named query.
- Use a query to eager fetch an association.



### 4. Messaging

- Understand point-to-point vs. publish/subscribe models.
- Understand JMS queues, topics, and connection factories.
- Understand and use the javax.jms.MessageListener interface.
- Implement a message-driven bean.
- @MessageDriven & @ActivationConfigProperty annotations.



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#### 5.REST services with JAX-RS

- Understand REST concepts, particularly the application
- Know and use standard HTTP return codes.
- Implement RESTful Root resource class.
- Expose a REST service using JAX-RS.
- Demonstrate ability to define @Path.
- Understand and use @Produce and @Consume.
- Consume and produce xml- and jso-formatted usg JAX-RS.

### 6.Security

- Understand basic JAAS terms and concepts.
- JAAS authentication details that will be provided to you.
- Secure server-side services (REST services and EJBs)

#### 7.CDI

Understand contextual scopes.













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