Objective & Audience

Objective
Help you prepare to take the Oracle Enterprise Manager 12c Essentials (1Z1-457) exam by providing topic areas and resources that you can use in your preparation.

Targeted Audience

- Technical Consultants
- Strong knowledge, foundation and expertise in implementing Oracle Enterprise Manager 12c
- Participated in Oracle Enterprise Manager 12c implementations
- Up-to-date training and field experience are recommended
Exam Topic Matter & Objectives

Topic Coverage Overview

The Oracle Enterprise Manager 12c Essentials exam covers topic area such as:

Oracle Enterprise Manager 12c Base Platform
- Core Product
- EM Reporting

Oracle Enterprise Manager 12c Fundamentals
- Cloud Management
- Application Management
- Database Management
- Oracle Fusion Middleware Management
- Hardware Management – EM Ops Center
- Test and Data Management
- Oracle Real User Experience Insight
- Business Transaction Monitoring
- Problem Identification and Resolution
- Operations and Lifecycle Management

Exam Objectives

Exam objectives are defined by learner or practitioner level of knowledge:

- **Learner-level**: questions require a candidate to recall information to determine the correct answer.
  
  Example: Define the term database.

- **Practitioner-level**: questions require a candidate to derive the correct answer from the application of their knowledge, which is attained by experience with the product.
  
  Example: The client requests xyz functionality, would you recommend choice a, b, c, or d?
Training Options

For exam topic matter, alternative training options have been identified that are available at Oracle. The training options are divided into three categories:

• **Boot Camps**
  Boot Camps are designed as a "jump start" training to enhance your skills by providing role-based training on industry-leading Oracle solutions and services. The boot camps are built as concise, intensive, and real-time training to give partners a competitive advantage as they prepare to build powerful solutions for their own customer base. Partners can choose to attend these boot camps in class or in a live virtual class format to maximize the effectiveness and the time allocated to training.

• **Instructor-Led Training (delivered by Oracle University)**
  Partners can take any publicly-scheduled Oracle University courses at steep discounts. Benefit from hands on experience to gain real working skill and work toward Oracle certifications.

• **Online Training**
  Oracle Partners are entitled free access to the Oracle Knowledge Center (OUKC), a vast library of recorded product courses. New courses are regularly added to the library, providing partners with the latest information and training to master new products or to increase proficiency on the new releases.
Sample Questions

For Oracle Enterprise Manager 12c Cloud Control, you will be asked a variety of exam questions primarily consisting of single or multiple choice questions. Below are examples.

Sample Questions

• Which two are true about Oracle Enterprise Manager metric extensions?
  A. Metric extensions are the new way to create metrics introduced in EM12c
  B. User-defined metrics are not supported for targets monitored by EM 12c
  C. User-defined metrics do not need to be migrated to metric extensions
  D. Migration of collected user-defined metric historic data is not supported with EM 12c
  E. Previously user-defined metrics do not need to be disabled or deleted after migrating them to metric extensions

• A customer is considering purchase of Oracle Packaged Applications. Identify three Oracle Enterprise Manager Application Management Suites that could be utilized for management of packaged Oracle Applications.
  A. Application Management Suite for FLEXCUBE
  B. Application Management Suite for Siebel
  C. Application Management Suite for PeopleSoft
  D. Application Management Suite for JD Edwards EnterpriseOne
  E. Application Management Suite for Generic Middleware

• Identify four consolidation choices handled by Oracle Enterprise Manager Cloud Control Consolidation Planner?
  A. Physical-to-Virtual
  B. Database consolidation on Exadata
  C. Application consolidation on Exalogic
  D. WebLogic consolidation on Exalytics
  E. Virtual-to-Physical
Topic Area 1: Oracle Enterprise Manager 12c (EM) Base Platform

Objectives

- Explain installation procedures and options
- Analyze and configure architecture to meet requirements
- Implement security and identity management in EM
- Manage and monitor a configuration using EM
- Tune product performance using EM
- Provision and patch with EM
- Describe EM plug-in and connector management

<table>
<thead>
<tr>
<th>Level</th>
<th>Learner</th>
<th>Practitioner</th>
</tr>
</thead>
</table>

Training Options

- Online Training
  - Oracle Enterprise Manager 12c Tutorials
  - EM Best Practices - Oracle Enterprise Manager KnowledgeZone
  - Oracle Enterprise Manager 12c PreSales Specialist
  - Oracle Enterprise Manager 12c Implementation Specialist
  - Oracle Enterprise Manager KnowledgeZone
  - Oracle Enterprise Manager 12c (release 12.1) documentation
  - Oracle Technology Network – Oracle Enterprise Manager
  - Oracle.com – Oracle Enterprise Manager
  - Oracle Enterprise Manager 12c (OU fee based Courses)
Topic Area 2:
Database Diagnostics, Configuration Troubleshooting

Objectives

• Explain database configuration and diagnostics using EM
• Configure and manage Oracle databases with EM
• Optimize Oracle databases with EM

Level
Practitioner
Practitioner
Practitioner

Training Options

• Online Training
  – Oracle Enterprise Manager 12c Tutorials
  – Oracle Enterprise Manager 12c PreSales Specialist
  – Oracle Enterprise Manager 12c Implementation Specialist
  – Oracle Enterprise Manager KnowledgeZone
  – Oracle Enterprise Manager 12c (release 12.1) documentation
  – Oracle Technology Network – Oracle Enterprise Manager
  – Oracle.com – Oracle Enterprise Manager
  – Oracle Enterprise Manager 12c (OU fee based Courses)
Topic Area 3:
Oracle Fusion Middleware Fundamentals

Objectives
- Configure and administer services using EM
- Explain features of Oracle Middleware and SOA management packs

Training Options
- Online Training
  - Oracle Enterprise Manager 12c Tutorials
  - Oracle Enterprise Manager 12c PreSales Specialist
  - Oracle Enterprise Manager 12c Implementation Specialist
  - Oracle Enterprise Manager KnowledgeZone
  - Oracle Enterprise Manager 12c (release 12.1) documentation
  - Oracle Technology Network – Oracle Enterprise Manager
  - Oracle.com – Oracle Enterprise Manager
  - Oracle Enterprise Manager 12c (OU fee based Courses)
Topic Area 4: 
Hardware Fundamentals - EM Ops Center

Objectives

- Explain EM Ops Center installation options, support & maintenance resources 
  Level: Learner
- Analyze and configure EM Ops Center to meet requirements 
  Level: Practitioner
- Administer and support operating systems with EM Ops Center 
  Level: Practitioner
- Explain Solaris 11 Operating System provisioning 
  Level: Learner
- Explain virtualization management for OVM Sparc and x86 
  Level: Learner

Training Options

- Online Training
  - Oracle Enterprise Manager 12c Ops Center training series
  - Oracle Enterprise Manager Ops Center Documentation
  - Oracle Enterprise Manager 12c PreSales Specialist
  - Oracle Enterprise Manager 12c Implementation Specialist
  - Oracle Enterprise Manager KnowledgeZone
  - OTN for System Administrators and Developers
  - Oracle Technology Network – Oracle Enterprise Manager
  - Oracle.com – Oracle Enterprise Manager
  - Oracle Enterprise Manager 12c (OU fee based Courses)
Topic Area 5: Oracle Real User Experience Insight (RUEI)

Objectives

- Configure and implement REUI  
  Level: Practitioner
- Explain RUEI features and related management packs  
  Level: Learner
- Determine applicable licensing and perform installation of RUEI  
  Level: Practitioner

Training Options

- Online Training
  - Oracle Enterprise Manager 12c Tutorials
  - Oracle Enterprise Manager 12c PreSales Specialist
  - Oracle Enterprise Manager 12c Implementation Specialist
  - Oracle Enterprise Manager KnowledgeZone
  - Oracle Enterprise Manager 12c (release 12.1) documentation
  - Oracle Technology Network – Oracle Enterprise Manager
  - Oracle.com – Oracle Enterprise Manager
  - Oracle Enterprise Manager 12c (OU fee based Courses)
Topic Area 6: Enterprise Reporting with EM

Objectives

- Explain Information Publisher and BI Publisher components
- Configure Information Publisher or BI Publisher job to produce a report

Level

- Learner
- Practitioner

Training Options

- Online Training
  - Oracle Enterprise Manager 12c Tutorials
  - Oracle Enterprise Manager 12c PreSales Specialist
  - Oracle Enterprise Manager 12c Implementation Specialist
  - Oracle Enterprise Manager KnowledgeZone
  - Oracle Enterprise Manager 12c (release 12.1) documentation
  - Oracle Technology Network – Oracle Enterprise Manager
  - Oracle.com – Oracle Enterprise Manager
  - Oracle Enterprise Manager 12c (OU fee based Courses)
Topic Area 7: Business Transaction Monitoring (BTM)

Objectives

- Describe BTM concepts, features and related management packs
- Configure EM to perform Business Transaction Monitoring

Level

- Learner
- Learner

Training Options

- Online Training
  - Oracle Enterprise Manager 12c Tutorials
  - Oracle Enterprise Manager 12c PreSales Specialist
  - Oracle Enterprise Manager 12c Implementation Specialist
  - Oracle Enterprise Manager KnowledgeZone
  - Oracle Enterprise Manager 12c (release 12.1) documentation
  - Oracle Technology Network – Oracle Enterprise Manager
  - Oracle.com – Oracle Enterprise Manager
  - Oracle Enterprise Manager 12c (OU fee based Courses)
Topic Area 8:
Oracle Enterprise Manager Fundamentals

Objectives

- Configure environment readiness, migration, installation for EM
- Configure new console and review configuration
- Configure and administer EM credentials and authentication
- Configure and administer EM job system and schedule a job
- Install & configure EM agent installation following deployment best practices
- Setup and use EM Administrative Groups and Template Collection

Level

Practitioner

Training Options

- Online Training
  - EM Best Practices - Oracle Enterprise Manager KnowledgeZone
  - Oracle Enterprise Manager 12c Tutorials
  - Oracle Enterprise Manager 12c PreSales Specialist
  - Oracle Enterprise Manager 12c Implementation Specialist
  - Oracle Enterprise Manager KnowledgeZone
  - Oracle Enterprise Manager 12c (release 12.1) documentation
  - Oracle Technology Network – Oracle Enterprise Manager
  - Oracle.com – Oracle Enterprise Manager
  - Oracle Enterprise Manager 12c (OU fee based Courses)
Topic Area 9: Problem Identification, Notification and Resolution

Objectives

- Configure and monitor using EM metrics and metric extensions  
  Level: Learner
- Explain EM Incident Management and Incident Rule Sets  
  Level: Learner
- Explain EM diagnostics and database snapshots to validate configurations  
  Level: Learner
- Explain middleware monitoring and diagnostics with EM  
  Level: Learner

Training Options

- Online Training
  - [EM Best Practices - Oracle Enterprise Manager KnowledgeZone](#)
  - [Oracle Enterprise Manager 12c Tutorials](#)
  - [Oracle Enterprise Manager 12c PreSales Specialist](#)
  - [Oracle Enterprise Manager 12c Implementation Specialist](#)
  - [Oracle Enterprise Manager KnowledgeZone](#)
  - [Oracle Enterprise Manager 12c (release 12.1) documentation](#)
  - [Oracle Technology Network – Oracle Enterprise Manager](#)
  - [Oracle.com – Oracle Enterprise Manager](#)
  - [Oracle Enterprise Manager 12c (OU fee based Courses)](#)
Topic Area 10: Cloud Management Fundamentals

Objectives

- Describe Cloud setup and guided wizard
- Explain provisioning and deployment to the Cloud with EM
- Explain the Self Service Portal
- Describe EM management and monitoring for the Cloud
- Perform a consolidation analysis with Consolidation Planner
- Explain EM chargeback and metering with EM

Level

- Learner
- Learner
- Learner
- Learner
- Practitioner
- Learner

Training Options

- Online Training
  - EM Best Practices - Oracle Enterprise Manager KnowledgeZone
  - Oracle Enterprise Manager 12c Tutorials
  - Oracle Enterprise Manager 12c PreSales Specialist
  - Oracle Enterprise Manager 12c Implementation Specialist
  - Oracle Enterprise Manager KnowledgeZone
  - Oracle Enterprise Manager 12c (release 12.1) documentation
  - Oracle Technology Network – Oracle Enterprise Manager
  - Oracle.com – Oracle Enterprise Manager
  - Oracle Enterprise Manager 12c (OU fee based Courses)
# Topic Area 11: Operations and Lifecycle Management Fundamentals

## Objectives

<table>
<thead>
<tr>
<th>Objective</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perform EM MOS setup and integration</td>
<td>Practitioner</td>
</tr>
<tr>
<td>MyOracle support product update and patch advisory</td>
<td>Practitioner</td>
</tr>
<tr>
<td>Explain automating provisioning and patching with EM</td>
<td>Practitioner</td>
</tr>
<tr>
<td>Explain change comparison and configuration management capabilities</td>
<td>Learner</td>
</tr>
<tr>
<td>Describe automated discovery, relationship dependencies, routing topology</td>
<td>Learner</td>
</tr>
<tr>
<td>Monitor and maintain EM itself: management service, repository and targets</td>
<td>Practitioner</td>
</tr>
<tr>
<td>Monitor and maintain Oracle and heterogeneous databases with EM</td>
<td>Practitioner</td>
</tr>
<tr>
<td>Explain middleware and SOA monitoring and maintenance with EM</td>
<td>Learner</td>
</tr>
<tr>
<td>Explain application monitoring and maintenance with EM</td>
<td>Learner</td>
</tr>
<tr>
<td>Describe Test Data Management with EM</td>
<td>Learner</td>
</tr>
<tr>
<td>Explain framework, standards support, compliance management reporting</td>
<td>Learner</td>
</tr>
</tbody>
</table>

## Training Options

- **Online Training**
  - EM Best Practices - Oracle Enterprise Manager KnowledgeZone
  - Oracle Enterprise Manager 12c Tutorials
  - Oracle Enterprise Manager 12c PreSales Specialist
  - Oracle Enterprise Manager 12c Implementation Specialist
  - Oracle Enterprise Manager KnowledgeZone
  - Oracle Enterprise Manager 12c (release 12.1) documentation
  - Oracle Technology Network – Oracle Enterprise Manager
  - Oracle.com – Oracle Enterprise Manager
  - Oracle Enterprise Manager 12c (OU fee based Courses)
Topic Area 12: Hardware Management Fundamentals

Objectives

- Explain systems, host, and virtualization management with EM
- Describe Oracle Engineered Systems Management

Level

- Learner
- Learner

Training Options

- **Online Training**
  - Oracle Enterprise Manager 12c Ops Center training series
  - Oracle Enterprise Manager Ops Center Documentation
  - Oracle Enterprise Manager 12c PreSales Specialist
  - Oracle Enterprise Manager 12c Implementation Specialist
  - Oracle Enterprise Manager KnowledgeZone
  - OTN for System Administrators and Developers
  - Oracle Technology Network – Oracle Enterprise Manager
  - Oracle.com – Oracle Enterprise Manager
  - Oracle Enterprise Manager 12c (OU fee based Courses)
Topic Area 13: Application Management Fundamentals

Objectives

- Explain Oracle packaged application management and application suites
- Describe Oracle next generation Fusion Application Management

Level

Learner

Training Options

- Online Training
  - EM Best Practices - Oracle Enterprise Manager KnowledgeZone
  - Oracle Enterprise Manager 12c Tutorials
  - Oracle Enterprise Manager 12c PreSales Specialist
  - Oracle Enterprise Manager 12c Implementation Specialist
  - Oracle Enterprise Manager KnowledgeZone
  - Oracle Enterprise Manager 12c (release 12.1) documentation
  - Oracle Technology Network – Oracle Enterprise Manager
  - Oracle.com – Oracle Enterprise Manager
  - Oracle Enterprise Manager 12c (OU fee based Courses)
Exam Registration

• **How to register for the exam?**
  You can register for all Oracle certification exams with Pearson VUE. Before a registration can be submitted, a Pearson VUE profile must be created using your Company ID. Your Company ID can be obtained by contacting your local Oracle Partner Business Center or by signing in to your OPN account. Your Company ID is located in the section on the right under "Company information".

  Please follow these instructions in order to properly set-up your Pearson VUE account for the first time.

• **Have you completed an Oracle Certification Exam in the past?**
  Due to systems enhancements, each partner who has completed an Oracle Certification Exam will need to update their Pearson VUE profile in order to receive credit and for those records to appear in the OPN Competency Center.

• **How to get full recognition as Certified Implementation Specialist?**
  To get full recognition as a Certified Implementation Specialist you need to:
  A. Update your Pearson VUE profile with your Company ID
  B. Activate your Certview Account

  Please follow these instructions and your records will be properly recorded.
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