Objective & Audience

Objective
Help you prepare to take the Oracle Communications Billing and Revenue Management 7 Basic Implementation Essentials (1Z0-596) Exam by providing pointers to resources that you can use in your Preparation.

Targeted Audience

• Technical Implementers
Exam Topics & Objectives

Exam Topics
The Oracle Communications Billing and Revenue Management 7 Basic Implementation Essentials Exam consists of eight topics:

1. BRM & Pipeline Manager Architecture
2. BRM & Pipeline Installation and Configuration
3. Billing and Finance
4. Pipeline Pricing and Rating
5. Pricing Foundation
6. Pipeline Developer
7. API Developer
8. Post-Implementation
Exam Objectives
The exam objectives are defined by learner or practitioner level of knowledge:

- **Learner-level**: questions require the candidate to recall information to determine the correct answer.

  Example: Define the term network.

- **Practitioner-level**: questions require the candidate to derive the correct answer from the application of their knowledge, which can only be attained by extensive experience with the product.

  Example: The client requests xyz functionality, would you recommend a, b or c?
Training Options

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

• **Boot Camps**
The 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.

  **OPN Competency Center** is an intelligent training tool that allows partners to manage their Oracle training with role-focused guided learning paths and measure their achievement toward Specialization:
Lesson 1: Billing and Revenue Management (BRM) 4-Tier architecture

Objectives
- Describe the four tiers of the BRM architecture and their functions, and how they communicate

Level: Learner

Lesson 2: Rating and discounting architecture of engines

Objectives
- Explain the Batch Rating Architecture
- Explain the Online Rating Architecture
- Explain the Discounting Architecture

Level: Learner, Learner, Learner

Lesson 3: Pipeline Manager Architecture

Objectives
- Describe the pipeline manager architecture

Level: Learner

Training Options
- Boot Camp
  - Oracle Communications Billing and Revenue Management Boot Camp

- Online Training
  - Oracle Communications Billing and Revenue Management Implementation Specialist
Sample Questions:

In Reference to BRM 4 Tier Architecture as shown in the figure above, where does Facilities Modules fit in?

A) Application Tier
B) Connection Management Tier*
C) Data Management Tier
D) Data Tier

Identify correct Discount pipeline?

A) *

B) 

C) 

D)
Lesson 1: Pipeline Manager Installation

Objectives
- Configure and start the pipeline

Training Options
- Boot Camp
  - Oracle Communications Billing and Revenue Management Boot Camp

- Online Training
  - Oracle Communications Billing and Revenue Management Implementation Specialist

Sample Questions:

Identify the environment variable which is used to set the directory where the Pipeline Manager software is installed?

A) BRM_HOME
B) Pipeline_Manager_HOME
C) INTEGRATE_HOME *
D) PM_HOME
**Topic 3: Billing and Finance**

**Lesson 1: Billing Process Overview**

**Objectives**
- Describe item objects in BRM
- Explain accounting cycle activities
- Explain billing cycle activities

**Level**
- Learner

**Lesson 2: Billing Options and Process**

**Objectives**
- Execute In Advance Billing, Bill Now and Delayed Billing processes
- Analyze the billing process and the effects of rerating

**Level**
- Practitioner

**Lesson 3: A/R Account Activities**

**Objectives**
- Describe the different options associated with adjustments and bulk adjustments
- Explain the dispute and settlement process

**Level**
- Learner

**Lesson 4: BRM Payment Process**

**Objectives**
- Configure and analyze the BRM payment process

**Level**
- Practitioner
Lesson 5: BRM Collections

Objectives
- Describe how BRM Collections processes bill units
- Use Collections Center

Level
Learner
Practitioner

Lesson 6: Reports

Objectives
- Create BRM reports and sub-reports
- Describe the different report packages
- Analyze data generated from BRM reports

Level
Practitioner
Learner
Practitioner

Lesson 7: Making Corrections

Objectives
- Describe the rerating process
- Resolve failed BRM initiated payment transactions
- Issue a customer refund

Level
Learner
Practitioner
Practitioner

Training Options
- Boot Camp
  - Oracle Communications Billing and Revenue Management Boot Camp
- Online Training
  - Oracle Communications Billing and Revenue Management Implementation Specialist
Sample Questions:

At which level of *adjustment*, the amount of the adjustment is subtracted from the due of the bill item?

A) Subscription service level
B) A/R and individual account level
C) Item level*
D) Event Level

Which is the order of rerating for the 'Usage Event type'?

A) Generated according to the time that the product is purchased
B) Chronological, based on event time*
C) Generated according to the time that the product is canceled
D) Generated according to the time that the associated billing cycle starts
**Topic 4: Pipeline Pricing and Rating**

**Lesson 1: Implementing Pipeline Rating**

**Objectives**
- Configure the BRM pricing model components and their attributes

**Level**
- Practitioner

**Lesson 2: Creating a Rate Plan for Delayed Events**

**Objectives**
- Setup a Rate plan for delayed events
- Set up a time model
- Set up a zone model
- Set up impact categories
- Set up a price model

**Level**
- Practitioner

**Lesson 3: Processing and Rating Delayed Events**

**Objectives**
- Configure Pipeline Manager to process and rate event detail records (EDRs)

**Level**
- Practitioner

**Lesson 4: Setting Up a Discount Model**

**Objectives**
- Explain the BRM discounting functionality and architecture
- Describe and configure the different components of a discount model

**Level**
- Learner
- Practitioner
Lesson 5: Loading Rated Events into BRM

Objectives
- Explain how the Rated Event Loader (RE Loader) loads rated events into the database

Training Options
- Boot Camp
  - Oracle Communications Billing and Revenue Management Boot Camp
- Online Training
  - Oracle Communications Billing and Revenue Management Implementation Specialist

Sample Questions:

You have a scenario in which you need to calculate the amount to charge, factoring in all applicable discounts, but does not apply the amount to the account balance. Which flag is passed to PCM_OP_ACT_USAGE?

A) PIN_ACT_CALC_MAX
B) PCM_OPFLG_CALC_ONLY*
C) PIN_RATE_FLG_RERATE
D) PIN_RATE_FLG_RATE_ONLY
**Topic 5: Pricing Foundation**

**Lesson 1: Price Plans for Real-time Rating**

**Objectives**
- Translate a basic price plan into the BRM Pricing Model components

**Level**
- Practitioner

**Lesson 2: BRM Pricing Center**

**Objectives**
- Combine rates into products
- Define Deals and Plans
- Describe Plan List attributes
- Use BRM Pricing Center to enter price plans into BRM

**Level**
- Practitioner
- Learner
- Practitioner

**Lesson 3: Testing BRM Price Plans**

**Objectives**
- Trigger system events and simulate usage events to test a price plan

**Level**
- Practitioner

**Lesson 4: Quantity-based Rating**

**Objectives**
- Configure rates based on quantity of an event
- Configure rates based on a resource balance
- Configure volume discounts

**Level**
- Practitioner
- Practitioner
- Practitioner
Lesson 5: Setting Up Free Usage

Objectives

- Implement and test free usage in the BRM Pricing Model

Training Options

- Boot Camp
  - Oracle Communications Billing and Revenue Management Boot Camp

- Online Training
  - Oracle Communications Billing and Revenue Management Implementation Specialist

Sample Questions:

Identify the product type which has a one-time purchase charge and no recurring charges?

A) Item *
B) Single service
C) Single rate plan
D) System

What is true about creating a new product?

A) Purchase levels applies to item products
B) Purchase levels don’t apply to item products *
C) A product cannot have both a monthly cycle forward event and a monthly cycle arrears event. *
D) A product can have both a monthly cycle forward event and a monthly cycle arrears event.
Topic 6: Pipeline Developer

Lesson 1: Configuring Pipeline Manager

Objectives
• Interpret the contents of the Pipeline Manager Registry files

Level
Practitioner

Lesson 2: EDR – Input and Output

Objectives
• Explain how input EDRs are converted to the EDR container format

Level
Learner

Lesson 3: Pipeline Data and Function Modules

Objectives
• Explain how the EDR is processed by the function modules in the pipeline
• Explain how data modules are used

Level
Learner

Lesson 4: Customizing Pipeline Using Function modules, IScript and Irule

Objectives
• Explain how existing modules can be used to modify pipeline behavior

Level
Learner
Training Options

- **Boot Camp**
  - Oracle Communications Billing and Revenue Management Boot Camp

- **Online Training**
  - Oracle Communications Billing and Revenue Management Implementation Specialist

Sample Questions:

Identify two preprocessing function modules used by EDR?

A) FCT_PreRating
B) FCT_UsageClassMap
C) FCT_Discard *
D) FCT_DuplicateCheck*

Using functional EDR, How will you have multiple phone numbers owned by one customer to be charged for on one bill?

A) FCT_PreRating
B) FCT_UsageClassMap
C) FCT_CliMapping *
D) FCT_DuplicateCheck
Lesson 1: Configuring BRM

Objectives
- Describe BRM directory structure and BRM configuration files

Lesson 2: BRM Object Model

Objectives
- Define Storable Class, Storable Object, Flist and Flist Specifications
- Define the BRM data types and explain the use of POID, ARRAY, SUBSTRUCT, and BUFFER data types
- Explain how a Storable class maps to the BRM database and use the Developer Center to define storable classes and view storable objects
- Use testnap to verify BRM server connection

Lesson 3: BRM Opcodes

Objectives
- Define BRM Opcode and differentiate between Standard, Policy, and Base Opcodes

Lesson 4: Customizing Pipeline Using Function modules, IScript and Irule

Objectives
- Define new Ratable Usage Metrics (RUMs)
- Map custom events to custom services
Lesson 5: Extending Event Creation

Objectives
• Describe the flow of standard and policy Opcodes used in the activity tracking process

Level
Learner

Lesson 6: Creating a Custom Data Manager

Objectives
• Describe the flow of standard and policy Opcodes used in the activity tracking process

Level
Learner

Training Options

• Boot Camp
  – Oracle Communications Billing and Revenue Management Boot Camp

• Online Training
  – Oracle Communications Billing and Revenue Management Implementation Specialist

Sample Questions:

Which of the following is not a BRM data type?
A) PIN_FLDT_DECIMAL
B) PIN_DD_TO_SCHEMA*
C) PIN_FLDT_ARRAY
D) PIN_FLDT_ERRBUF
Topic 8: Post-Implementation

Lesson 1: Monitor and Maintain the BRM System

Objectives
• Describe the types of log files
• Show the status of BRM processes

Level
Learner
Practitioner

Lesson 2: Monitor and Maintain Pipeline Manager

Objectives
• Describe the types of log files

Level
Learner

Lesson 3: Upgrading BRM

Objectives
• Upgrade BRM using the Upgrade Package

Level
Practitioner

Training Options

• Boot Camp
  – Oracle Communications Billing and Revenue Management Boot Camp

• Online Training
  – Oracle Communications Billing and Revenue Management Implementation Specialist
**Sample Questions**

When upgrading BRM, if your system includes the Synchronization Queue Data Manager, then you must recreate your Oracle AQ database. After recreating it you need to

A) restart DM_AQ services*

B) update BRM_home/sys/dm_aq/aq_queueenames with the recreated Oracle AQ database queue name*

C) run the load_pin_notify utility

D) run the uninstaller.bin program

During your upgrade process, you start getting error message “PIN_ERR_STREAM_EOF”. What does this means?

A) The application unexpectedly lost the connection to the BRM database*

B) The server might have stopped working.*

C) The application encountered an error while writing a logfile

D) BRM couldn't create an object because of EOF limit.
**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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