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Essentials for IBM Cognos BI (V10.2)

Information

<b>Length:</b>	5.0 Days
<b>__Ref:</b>	B5270G-X
<b>Delivery method:</b>	ClassroomInstructor Led Online
<b>Price:</b>	AUD

Overview

Essentials for IBM Cognos BI (V10.2) is a blended offering consisting of five-days of instructor-led training and 21 hours of Web-based, self-paced training. This accelerated offering is intended for core project team members wishing to acquire a broad understanding of a Business Intelligence platform implementation. During the ILT segments, participants will perform hands-on demos and workshops that cover four essential topic areas: Modeling, Report Authoring, Workspace Advanced, and Administration of a BI platform. Throughout the ILT, participants will be guided to more-in depth training offerings and paths leading to certification.

Public

This course is intended for Project Managers,Technical Analysts and Developers.

Prerequisites

Required:

- Experience using the Windows operating system
- Experience using a web browser

Objective

Please refer to Course Overview for description information.

Topics

Overview of IBM Cognos BI

- discuss IBM Cognos BI and Performance Management
- describe IBM Cognos BI components
- describe IBM Cognos BI architecture at a high level
- define IBM Cognos BI groups and roles

- explain how to extend IBM Cognos BI

## **Identify Common Data Structures**

- Define the metadata modeling role in IBM Cognos BI
- examine the characteristics of operational databases and databases designed for reporting
- examine dimensional data sources (OLAP, ROLAP, DMR)

## **Gather Requirements**

- examine key modeling recommendations
- define reporting requirements
- explore data sources to identify data access strategies

## **Create a Baseline Project**

- examine the IBM Cognos BI workflow processes
- define a project and its structure
- describe the Framework Manager environment
- create a baseline project
- enhance the model with additional metadata

## **Prepare Reusable Metadata**

- identify facts and dimensions
- examine relationships, and data traps
- verify relationships and query item properties
- ensure efficient filters by configuring prompt properties

## **Model for Predictable Results: Identify Reporting Issues**

- describe multi-fact queries and when full outer joins are appropriate
- describe how IBM Cognos BI uses cardinality
- identify reporting traps
- use tools to analyze the model

## **Model for Predictable Results: Virtual Star Schemas**

- identify the advantages of modeling metadata as a star schema
- model in layers
- create aliases to avoid ambiguous joins
- merge query subjects to create as view behavior

## **Model for Predictable Results: Consolidate Metadata**

- create virtual facts to simplify writing queries
- create virtual dimensions to resolve fact-to-fact joins
- create a consolidated modeling layer for presentation purposes
- consolidate snowflake dimensions with model query subjects
- simplify facts by hiding unnecessary codes

## **Calculations and Filters**

- use calculations to create commonly-needed query items for authors
- use static filters to reduce the data returned
- use macros and parameters in calculations and filters to dynamically control the data returned

## **Implement a Time Dimension**

- make time-based queries simple to author by implementing a time dimension
- resolve confusion caused by multiple relationships between a time dimension and another table

## **Specify Determinants**

- use determinants to specify multiple levels of granularity and prevent double-counting

## **Create the Presentation View**

- identify the dimensions associated with a fact table
- identify conformed vs. non-conformed dimensions
- create star schema groupings to provide authors with logical groupings of query subjects
- Rapidly create a model using the Model Design Accelerator

## **Create Analysis Objects**

- Define dimensionally modeled relational (DMR) metadata
- apply dimensional information to relational metadata to enable OLAP-style queries
- define members and member unique names

## **Introduction to the Reporting Application**

- Examine Report Studio and its interface
- Explore different report types
- Create a simple, sorted, and formatted report
- Explore how data items are added to queries

## **Create List Reports**

- Format, group, and sort list reports

- Describe options for aggregating data
- Create a multi-fact query
- Create a report with repeated data

## **Focus Reports Using Filters**

- Create filters to narrow the focus of reports
- Examine detail and summary filters
- Determine when to apply filters on aggregate data

## **Create Crosstab Reports**

- Format and sort crosstab reports
- Convert a list to a crosstab
- Create crosstabs using unrelated data items
- Create complex crosstabs using drag and drop functionality

## **Present Data Graphically**

- Create charts containing peer and nested items
- Present data using different chart type options
- Add context to charts
- Create and reuse custom chart palettes
- Present key data in a single dashboard report

## **Focus Reports Using Prompts**

- Identify various prompt types
- Use parameters and prompts to focus data
- Search for prompt items
- Navigate between pages

## **Extend Reports Using Calculations**

- Create calculations based on data in the data source
- Add run-time information to the reports
- Create expressions using functions
- Highlight exceptional data
- Show and hide data
- Conditionally render objects in reports
- Conditionally format one crosstab measure based on another
- identify changes that impact a MUN
- sort members for presentation and predictability

## **Customize Reports with Conditional Formatting**

- Create multi-lingual reports
- Highlight Exceptional Data
- Create a Conditionally Rendered Column
- Conditionally Format One Crosstab Measure Based on Another

## **Drill-Through From One Report to Another**

- Let users navigate from a specific report to a target report
- Pass parameter values to filter the data in drill-through targets
- Navigate through multiple reports

## **Create Reports using Relational Data**

- Define Relational Data
- Define report layouts
- Build a report
- Explain how to add data query items
- Use calculations

## **Introduction to IBM Cognos BI Administration**

- Describe the role of the Administrator in relation to the IBM Cognos BI administration workflow process.
- Describe the role of IBM Cognos Administration and IBM Cognos Configuration.

## **Identify IBM Cognos BI Architecture**

Identify and explain:

- the features of the IBM Cognos BI architecture
- the three architectural tiers
- IBM Cognos BI servlets and services
- the default servlet container and alternatives to its use
- an example of IBM Cognos BI request processing
- installation options
- load balancing mechanisms
- configuration options
- the IBM Cognos Application Firewall

## **Secure the IBM Cognos BI Environment**

- Identify the IBM Cognos BI security model
- Define authentication and authorization in IBM Cognos BI.
- Identify security policies
- Secure the IBM Cognos BI environment

## **Manage Run Activities**

- Manage current, upcoming and past activities
- Manage schedules

## **Manage Content in IBM Cognos Administration**

- View Data Sources Associated with a Package and Add a Data Source
- Add Multiple Connections for a Single Data Source
- Create a Distribution List
- Create an Export and Import Archive
- Save Content to the File System

## **Post class e-Learning:**

- *IBM Cognos for Microsoft Office: Integrate with Microsoft Office (V10.1/10.2) (B5130)*
- *IBM Cognos BI Event Studio: Create and Manage Agents (V8.4/10.1) (B5131)*
- *IBM Cognos Transformer: Create PowerCubes (V10.1) (B5169)*
- *IBM Cognos Workspace Advanced: Introduction (V10.2) (B5283)*
- *IBM Cognos Workspace Advanced: Intermediate (V10.2) (B5284)*
- *IBM Cognos BI for Consumers (V10.2) (B5288)*
- *IBM Cognos Workspace: Create Workspaces (V10.2) (B5217)*