



# COGNOS TRAINING

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## POWERPLAY OLAP MODELING FOR SERIES 7 VERSION 3 AND COGNOS 8 BI

**PowerPlay OLAP Modeling for Series 7 Version 3 and Cognos 8 BI** is a three-day instructor-led course that provides modelers with an in-depth understanding of the fundamental skills involved in designing, building, and maintaining PowerCubes for use with Cognos 8 BI and PowerPlay applications.

### Transformer Fundamentals

- Discuss the basics of OLAP analysis
- Discuss the importance of business requirements
- Review PowerPlay components
- Review Cognos 8 BI components
- Define a model

### The Transformer Development Process

- Describe the purpose of a Transformer model plan
- Match business requirements to the model
- Discuss an approach for creating a Transformer model plan
- Review the relation of the model plan to the Transformer model

### Data Sources in Transformer

- Identify source data
- Discuss the types of data used by Transformer
- Create data source files
- Connect the data source to the model
- Define the data source and column properties in the model
- Preview source data and SQL
- Maintain and synchronize data sources with the model

### Building a Model

- Create model structures using manual techniques and AutoDesign
- Modify property sheets for dimensions, levels, and categories
- Confirm the data source origin
- Generate categories to populate the Transformer model
- Modify the model using the dimension diagram
- Verify the model
- Create a default PowerCube

### The Time Dimension

- Discuss the purpose of a time dimension
- Identify the specific properties of a time column
- Define a regular time dimension
- Discuss a nonstandard time dimension

### Relative Time

- Compare trends over time
- Set the current period
- Create relative time categories
- Customize relative time categories

### Use Multiple Data Sources

- Discuss the use of multiple data sources
- Plan the data source
- Define data source types
- Identify and resolve conflicts between data sources
- Validate a multiple data source model
- Discuss a unique move

### Working with Measures

- Discuss the purpose and uses of measures
- Describe the differences between regular and calculated measures
- Set measure properties
- Compare rollup options
- Create a calculated measure and a calculated measures folder
- Create calculations before or after rollups
- Create a category count

### **Allocated Measures**

- Discuss measure allocation
- Allocate measures as a constant and by another measure
- Use the measure scope Dimension Map to check measure distribution

### **Currency Conversion**

- Apply and use currency conversion techniques

### **Alternate Drill Downs**

- Discuss primary drill-down
- Define an alternate drill-down path
- Describe the benefits and uses of alternate drill-down paths
- Create an alternate drill-down path
- Define convergence levels and identify uniqueness issues

### **Advanced Dimensional Modeling**

- Discuss techniques for customizing dimensions
- Add a new source level to an existing dimension
- Create and populate a manual level in a dimension
- Create orphan categories
- Modify a dimension using a subdimension
- Create a special category
- Create a scenario dimension
- Create and use calculated columns and categories

### **Customizing PowerCubes**

- Create various types of PowerCubes
- Omit dimensions and exclude measures
- Create and apply dimension views
- Define various PowerCube property settings
- Prompt for alternative cube during rebuild
- Create a cube group
- Create time-based partitioned PowerCubes

### **Applying Security**

- Discuss model security
- Assign user classes to PowerCubes
- Create user class views
- Discuss the union of user classes

### **Drill Through**

- Discuss the concept of drilling through
- Enable drilling through to Cognos 8 BI, ReportNet, Impromptu, and PowerPlay reports
- Examine how to prevent inappropriate drill through requests
- Drill through to Cognos Cognos 8 BI
- Drill through to another PowerCube

### **Optimizing PowerCubes**

- Discuss the optimization of PowerCubes
- Determine factors affecting PowerCube build time
- Partition a PowerCube
- Compress a PowerCube
- Schedule a PowerCube update
- Consider Windows client vs. Web client need

### **Model for Cognos 8 BI**

- Accessing secured and non-secured PowerCubes in Cognos 8 BI
- Publishing PowerCubes to the Cognos Connection portal
- Discuss the optimization of PowerCubes
- Determine factors affecting PowerCube build time



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## INTENDED AUDIENCE

This course is intended for new PowerPlay modelers.

## PREREQUISITES FOR POWERPLAY SERIES 7 VERSION 3 USERS

- Understand the business need for ad hoc data exploration and analysis
- Have experience using PowerPlay
- Series 7 Version 3 PowerPlay Exploration & Report Building course or Cognos 8 BI Analysis for Mobile Users (recommended)
- Experience using basic Windows functionality

## PREREQUISITES FOR COGNOS 8 BI USERS

- Understand the business need for ad hoc data exploration and analysis
- Cognos 8 BI Analysis for Mobile Users course (recommended)
- One of the following (recommended):
  - Cognos 8 BI Ad Hoc Querying course OR Cognos 8 BI Ad Hoc Querying CBT
  - Cognos 8 BI Report Authoring Part 1 course OR Cognos 8 BI Introduction to Report Authoring CBT
  - Cognos 8 BI Analysis course OR Cognos 8 BI Introduction to Analysis CBT
- Experience using basic Windows functionality

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