

Customizing and Extending PowerDesigner

Course Summary

Description

Students will gain knowledge in customizing SAP PowerDesigner to include custom metadata and functionality into the SAP PowerDesigner API.

Objectives

After taking this course, students will be able to:

- Customize SAP PowerDesigner
- Explore the SAP PowerDesigner Meta-model
- Create custom stereotypes to include business logic within a model
- Control generation settings and behaviors using transformations
- Implement naming standards and conversion tables
- Create custom menu items
- Create custom checks to implement business logic inside the model
- Analyze how objects interact with Impact Analysis

Topics

- Impact and Lineage Analysis
- Generation Template Language
- Metamodel
- User Interface Customization
- Code Generation and Customization of Features

Audience

This course is designed for:

- Business Analysts
- Data Consultants / Managers
- Developers
- Enterprise Architects

Prerequisites

Before taking this course, students should have taken the Data Modeling with PowerDesigner 16.5 course (PT20675).

Duration

Two days

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Course Outline

- I. *Impact and Lineage Analysis***
 - A. Configuring Links between Models
 - B. Generating an Impact Analysis Model
 - C. Modifying an Impact Analysis Model
- II. *Generation Template Language***
 - A. Customizing the Components of Generation Template Language (GTL)
 - B. Using GTL Variables
 - C. Using Macros in GTL Code
- III. *Metamodel***
 - A. Examining the Metamodel
 - B. Examining the Metamodel Structure
- IV. *User Interface Customization***
 - A. Identifying Files for Model Customization
 - B. Creating Extension Files
 - C. Creating Custom Properties
 - D. Classifying Objects and Customizing their Display
 - E. Creating Multi-Valued Properties
 - F. Defining Custom Import from XML
 - G. Generating Multiple Objects Between Models
- V. *Code Generation and Customization of Features***
 - A. Configuring Language Files
 - B. Customizing SQL Generation
 - C. Scripting Customizations
 - D. Customizing Model Features
 - E. Customizing Model Generation