

## Data Integration Hub Developer Training

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### Course Summary

#### Description

This course is for those who want to design and develop DIH Publications and Subscriptions, as well as learn methodologies and best practices. Review detailed development practices using DIH and PowerCenter, the overall Publish-and-Subscribe model and basic DIH administration. This course is applicable for software version 10.1.

#### Objectives

At the end of this course, students will be able to:

- Discuss the basic concepts surrounding the Data Integration Hub
- Describe the underlying DIH Publish-and-Subscribe model
- Create auto publications and subscriptions
- Understand the interaction between DIH and PowerCenter
- Describe the concept of events and end-to-end tracking
- Utilize Full and Delta publications and subscriptions
- Design and develop custom publications and subscriptions
- Use DIH specific transformations in PowerCenter
- Design compound subscriptions
- Develop real-time publications
- Discuss the use of workflow parameters
- Recognize the importance of an event status and event attributes
- Describe preprocessors and their use case
- Security and DIH administration
- Discuss best practices and methodology
- Recognize use cases for DIH and how a DIH model can add value

#### Topics

- Introduction to Data Integration Hub
- Environment Review and Preparation
- Auto Publication and Subscriptions
- Full and Delta Publications and Subscriptions
- Compound Subscriptions
- Custom Publications and Subscriptions
- Preprocessors
- Real-Time
- Big Data Management Integration
- Informatica Cloud Integration
- Security and Administration
- Advanced Design

#### Audience

This course is designed for Developers, Administrators and Consultants.

#### Prerequisite

The prerequisites for this course are:

- Knowledge of SQL
- Understanding of RDBMS concepts
- PowerCenter v10 Developer, Level 1

#### Duration

Three Days

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### Course Outline

- I. **Introduction to Data Integration Hub**
  - A. Big Picture
  - B. Overview Data Integration Hub
  - C. The Publish-and-Subscribe Model
  - D. Advantages of the Data Integration Hub
  - E. Overview of Common Architecture
  - F. Use Cases for DIH
- II. **Environment Review and Preparation**
  - A. Introduction to PowerCenter and DIH
  - B. Overview of the Lab Environment
  - C. Pre-Installation Tasks
  - D. Installation
  - E. Post-Installation Tasks
- III. **Auto Publication and Subscriptions**
  - A. Introduction to Applications
  - B. File and Database Connections
  - C. Publication Introduction
  - D. Creating Different Auto Publications
  - E. Subscription Introduction
  - F. Creating Different Auto Subscriptions
  - G. Naming Conventions and Best Practices
  - H. Running a Publication Manually
  - I. Events and End-to-End Tracking
- IV. **Full and Delta Publications and Subscriptions**
  - A. Full versus Delta Publications and Subscriptions
  - B. Use Cases
  - C. Creating Full Publications and Subscriptions
  - D. Creating Delta Publications and Subscriptions
  - E. Customizing Source and Target Definitions
- V. **Compound Subscriptions**
  - A. Compound Subscription Overview
  - B. Creating a Compound Subscription
  - C. How Compound Subscriptions Work
  - D. Delivery Options
- E. Compound Subscription Events and Tracking
- VI. **Custom Publications and Subscriptions**
  - A. Creating a Custom Publication and Subscription
  - B. Using DIH transformations in PowerCenter
  - C. Event Status, Event Attributes and Logging
- VII. **Preprocessors**
  - A. Preprocessor Overview
  - B. Workflow Parameters
  - C. Pre-Processing Parameters
- VIII. **Real-Time**
  - A. Introduction to using DIH and Real-Time
  - B. JMS Queues
  - C. Creating a Real-Time Publisher
  - D. Differences when Running in Real-Time
- IX. **Big Data Management Integration**
  - A. Overview of Big Data Management Integration
- X. **Informatica Cloud Integration**
  - A. Overview of Informatica Cloud Tasks
  - B. Informatica Cloud Tasks in DIH
- XI. **Security and Administration**
  - A. Administration Overview
  - B. User Access
  - C. Introduction to Categories
  - D. DIH Dashboards
- XII. **Advanced Design**
  - A. Advanced Lab