



# OVERVIEW

## BusinessObjects™ Data Integrator XI: Extracting, Transforming and Loading Data – DM370

Using Data Integrator you can create jobs that Extract, Transform and Load (ETL) data from disparate sources to deliver more timely and accurate data that end users at your organization can trust. This course provides hands-on activities that walk you through setting a connection to your data source, creating and troubleshooting an ETL batch job, managing metadata, and using the Web Administrator to administer batch jobs. In this course you will also learn how to collaborate with others when creating ETL jobs in a multi-user environment.

As a business benefit, by being able to create efficient ETL jobs, your end users can use this transformed data to help improve operational and supply chain efficiencies, enhance customer relationships, create new revenue opportunities, and optimize your return on investment from enterprise applications.

### Who should attend?

This course is designed for individuals responsible for implementing projects involving the extraction, transformation and loading of data in batch jobs, administering and managing projects that involve Data Integrator.

### What will I learn?

After completing the course, learners will be able to:

- Describe BusinessObjects Data Integrator architecture
- Define source and target metadata to import into your ETL jobs
- Create a batch job
- Validate, trace and debug batch jobs.
- Use built-in Transforms and Functions to support data flow movement requirements
- Optimize data flow
- Use variables, parameters and Data Integrator Scripting Language
- Capture Changes in Data
- Handle errors and exceptions
- Support a multi-user environment, administer batch jobs and migrate projects using datastore and system configurations
- Manage metadata

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## Course Topics

### Data Warehousing Concepts

- Describe normal forms of data
- Explain dimensional modeling

### Understanding Data Integrator

- Understand Data Integrator Architecture and Interface and development process
- Define objects
- Explain relationships between objects, projects and jobs
- Describe the Data Integrator development process

### Defining Source and Target Metadata

- Use datastores
- Import metadata
- Define a file format

### Creating a Batch Job

- Create a batch job
- Create a simple data flow
- Add source and target objects to a data flow
- Use the Query transform
- Execute the job
- Add a new table to a data flow using template tables

### Validating, Executing and Debugging Jobs

- Use descriptions and annotations
- Validate and trace jobs
- Debug jobs

### Using built-in Transforms

- Describe built-in transforms
- Create an embedded data flow

### Using built-in Functions

- Define and use built-in functions
- Use functions in expressions

### Optimizing Data Flow

- Optimize source and target based performance
- Optimize job performance
- Understand table partitioning and parallel execution in data flows

### Using Variables, Parameters and Scripting

- Understand Variables, Parameters and DI Scripting Language
- Script a custom function

### Capturing Changes in Data

- Use source-based and target-based Changed Data Capture

### Handling Errors and Exceptions

- Understand recovery systems
- Process data with problems

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## Supporting a multi-user environment

Set up and work in a multi-user environment  
Describe common tasks in a multi-user environment

## Migrating Projects between Design, Test and Production Phases

Understand migration mechanisms and tools  
Use datastore configurations and migration  
Migrate a multi-user and single user environment  
Use datastore configurations to improve job portability

## Using the Web Administrator

Use the Web Administrator  
Implement central repository security  
Manage batch jobs with the Administrator  
Understand server groups

## Managing metadata

Understand metadata  
Use metadata reporting  
Use the Metadata Reporting tool

## Delivery and duration

This instructor-led offering is a 4-day course.

## Prerequisites

To be successful, learners who attend this course must have:

- Knowledge of data warehousing concepts
- Experience with Microsoft SQL Server
- Knowledge of normal forms of data and SQL language
- Experience using functions, elementary procedural programming and flow-of-control statements. For example: If, Else, While, Loop

## Certification applicability

This course is not part of a BusinessObjects Enterprise Certified Professional certification.

## For more information or to register for training

Visit [www.businessobjects.com/services/training/default.asp](http://www.businessobjects.com/services/training/default.asp)

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