# Data Integration Architecture and Design

## ■ Duration

3 days

## ■ Delivery

Classroom

## ■ Course code

DIAD

## ■ Online registration

www.sas.com/uk/education/
courses/diad.html

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## UK CONTACT INFORMATION

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This course introduces data integration architecture concepts including modeling; understanding the different types of data sources; and designing the process of creating and using data warehouse information.

## Learn how to:

- understand the SAS® IPI methodology for rapid warehousing
- differentiate between the various types of data modeling
- work with various data sources and include data quality
- work with and exchange metadata between applications
- design extraction, transformation and load processes
- establish security
- create and use data warehouse information.

## Who should attend:

Data integration architects, data integration developers, and project managers.

## Prerequisites:

There are no prerequisites for this course.

## Course contents:

### Introduction

- introducing course topics
- specifying data integration architect concepts.

### Rapid Warehousing

- rapid warehousing using the SAS IPI methodology

## Defining Modeling

- defining subject modeling
- defining dimensional modeling
- defining entity relationship modeling
- defining when to use what
- defining physical data modeling.

## Working with Data Sources

- defining different types of data sources
- defining data quality issues
- defining unstructured data sources
- defining integration of data sources.

## Introducing Metadata

- defining metadata
- specifying metadata architecture
- defining metadata exchange between applications.

## Defining Process Design

- defining extraction
- defining transformation
- defining loading
- defining archiving
- specifying backup and restore techniques
- working with scheduling.

## Exploring Security Concepts

- defining layers of security
- defining data encryption
- taking advantage of logging and tracing.

### Using Data Warehouse Information

- using data with business intelligence applications
- using data for business analytics
- using data for operational intelligence.

### Software addressed:

This course is independent of the software used to implement a data warehouse..

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**Training Path for Data Integration Architects**

**Data Integration Architecture and Design**