



THE
LEARNING
DEVELOPMENT
GROUP

Introduction

This rigorous short course will help you master the vital techniques for constructing logical data models. It is designed to give you a thorough understanding of the role and importance of data in an organisation.

You will gain knowledge and skills on information models so that you are better equipped to design and specify information requirements for new systems.

This short course is delivered on request for minimum group sizes.

Target Audience

This programme is aimed at any business user, individual or manager who works with information and data in systems and who is involved in requirements workshops, writing specifications for new systems or constructing information systems.

It is especially relevant to business, data and product specialists, domain experts, Business and Systems Analysts, Enterprise Architects and MIS specialists.

Entry Requirements

There are no specific or strict entry requirements, but we recommend that you are computer literate and that you have business experience working with systems using business information.

If you have worked with raw data or bulk information and done any statistical analysis, this will be an advantage.

Workplace Requirements

Ideally you need to be able to apply and practise the skills learnt on the course to your own job, to derive the most value.

Business Analysis

Information & Data Modelling

IDML – FTI Certification

SAQA ID: NA

NQF Level: NA

Credits: NA

Course Delivery & Assessment

We use in-classroom, virtual classroom and blended interactive facilitated training sessions and practical group exercises built around a comprehensive Case Study, to embed theory and skills.

To gain an FTI Certificate of Attendance, you will need to:

- Attend all lectures and sessions.
- Actively participate in activities and discussions.
- Learn by practising techniques, sharing knowledge and experiences and completing exercises.

Learning Outcomes

By the end of the course, you will have a solid understanding of the business value of data and the fundamentals of information modelling. You will be able to:

- Describe why data requirements are vital to any software project.
- Facilitate and extract requirements from business specialists and validate and verify information models using walk-throughs and reviews in a JAD workshop.
- Document and describe information requirements and the relationship between information and other systems artefacts like screens, reports, and processes.
- Describe how a range of business stakeholders can get involved with data requirements.
- Relate business and procedural rules to information designs.
- Follow a step-by-step approach to defining and analysing data requirements.
- Use the entity-relationship modelling technique effectively.
- Understand the role of matrices in documenting and cross-referencing models.
- Recognise and apply various information patterns that are common in business systems.



Course Content

Information and Data Modelling Short Course

Accreditation Body: NA

SAQA ID: NA | Learning Programme ID: IDML
NQF Level: NA | Credits : NA

The Business Context of Data

- Information in the real world
- Information lifecycle management
- Information stakeholders: their responsibilities and needs
- The business value of data – information as an asset
- Information related risk
- The database environment

Information Modelling Fundamentals

- The purpose of modelling
- The hierarchy of information models
- Building Subject Area models
- Introducing the logical information/data model
- Building business rules into information models
- Understanding entities and attributes

Modelling for Business Rules and Requirements

- Understanding the link between models and databases
- Basic relational patterns
- Associative and Attributive Entities
- Lookup Tables
- Supertypes and Subtypes
- Understanding & implementing business rules
- Advanced Information Modelling Concepts

Validating Information Models

- Documenting Information Models
- The data dictionary
- Assessing model quality
- Data model normalisation
- The power of data modelling



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