

SHORT PROGRAMME OVERVIEW

INFORMATION AND DATA MODELLING (IDML)

FTI Certification

Information and Data Modelling is a specialist short programme aimed at Business and Systems Analysts and professionals who analyse and model data requirements. It is practical and skills-oriented with a focus on developing techniques for constructing logical data models.

It covers the fundamentals of modelling, provides the business context and importance of information and data in organisations, and develops delegate competence in facilitating and extracting requirements, and using different modelling techniques for improved application and data performance.

AIMED AT: Business and Systems Analysts, developers, data and product specialists, domain experts, enterprise architects and MIS specialists, or any business user working with data in a system, facilitating requirements workshops, or writing specifications.

TARGET INDUSTRIES: Banking, finance, healthcare, insurance, ICT, IT, and government. **DURATION:** 4 sessions (3 full days or 6 evenings depending on the calendar and roll-out schedule). **DELIVERY:** Virtual live, instructor-led learning with a workshop-style approach for increased delegate collaboration and skills transfer.

GROUP SIZE PRECONDITION: Delivered on request for minimum group sizes of ten.

PROGRAMME CUSTOMISATION: Can be customised to suit a group or organisation's unique requirements.

FOCUS: Intensive short programme for accelerated professional development.

DELEGATE INVOLVEMENT: It demands an elevated level of discipline and commitment to complete the programme. Full attendance and participation are required for all sessions.

LEARNING OUTCOMES

Gain knowledge, skills, and competencies in:

- Describing the value and context of information and data to any business or software project.
- Facilitating and extracting requirements from business specialists.
- Validating and verifying information models in a Joint Application Development (JAD) workshop.
- Documenting and describing information requirements and the relationship between information and different systems artefacts.
- Appreciating how business stakeholders get involved in data requirements.
- Relating business and procedural rules to information designs.
- Following a step-by-step approach to defining and analysing data requirements.
- Using the entity-relationship modelling technique effectively.
- Understanding the role of matrices in documenting and cross-referencing models.
- Recognising and applying information patterns common in business systems.

THE VALUE OF A SHORT PROGRAMME

- Targeted, time-efficient training.
- After-hours study option designed for working professionals.
- Acquire relevant, up-to-date career enhancing industry skills that have adapted quickly to market changes.
- Immediately perform your role more effectively with the skills and insights gained from an interactive workshop.



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PROGRAMME CONTENT

The Business Context of Data

- Information in the real world
- Information Lifecycle Management
- Information stakeholder responsibilities and needs
- The business value of data / information as an asset
- Information related risk
- Glossaries
- How systems work with data
- The database environment

Information Modelling Fundamentals

- The purpose of modelling
- What is Information Requirements 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
- Relationships

Modelling for Business Rules & Requirements

- Understanding the link between models and databases
- Resolving “many-to-many” relationships
- Basic relational patterns
- Associative entities
- Understanding the Business Rules
- Attributive Entities
- Lookup tables
- Supertypes and Subtypes
- Implementing business rules
- Advanced Information Modelling concepts

Validating Information Models

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

The FTI Experience: Accelerating professional development through specialised skills training.

Founded in 1989, Faculty Training Institute (FTI) is synonymous with training highly accomplished, confident, problem-solvers in Business Analysis (BA) and Quality Assurance (QA) and Testing. Our specialist programmes offer targeted skills development and career pathways for individuals working across all levels of an organisation to implement change.

Owned by iOCO, a Johannesburg Stock Exchange (JSE) listed company, FTI falls within the Outsourced Knowledge Solutions (OKS) division. iOCO is a forward-thinking company that delivers end-to-end technology to clients across Africa, Europe, and the United Kingdom. Level 1 B-BBEE status.

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