Data Modeling

(Unit 2 of 4 units in Business Process Analysis and Optimisation)

Duration: 2 days

Scheduled In:
MELBOURNE

On Demand In:
SYDNEY
BRISBANE
CANBERRA

Overview

A Business Analyst plays an important role between business sponsors, business users, and the technical IT solution development and implementation teams. Success depends on the knowledge and experience of a variety of techniques to gather, model, and document business problems, issues, strategies, and solution requirements. This course teaches essential data gathering and modeling techniques, as well as how to choose the right technique for the right situation.

This is part of the Monash Professional Business Process Analysis and Optimisation course, comprising ten days instructor led training. Data Modeling is the second unit and can be taken in conjunction with:

- Unit 1: Process Mapping, Analysis and Modelling
- Unit 3: Business Process Metrics
- Unit 4: Software Tools for Process & Data Modellers

Learning Method

Instructor led

This course uses a combination of instructor presentation, and student hands-on practical exercises.

Who will benefit from this course?

Anyone needing to understand how to define and manage business related data, including:

- Business Analysts
- Project Managers
- Financial Managers
- Process Improvement professionals

Pre-Requisites for this course

The course does not require any previous experience with data or databases.

Data Modeling

What you can expect to gain from this course?

On completion of this course you will:

- Be able to identify and work with Entities
- Be able to identify and work with Relationships
- Be able to identify and work with Attributes
- Understand the E-R Diagram Structure
- Understand Cardinality
- Understand keys
- Understand normalisation
- Understand data modelling components
- Understand UML

Course Content

Module 1: Introduction to Data Modelling

- Introduction: Define Entity
- Activity 1: Define Relationships
- Activity 2: Attributes Introduction
- Activity 3: E – R Diagram Structure
- Understand Cardinality
- Data Modelling
- Activity 4

Module 2: Advanced Data Modelling

- Introduction: Understand Attributes
- Activity 5: Keys Introduction
- Activity 6: Normalisation
- M:M
- Data Modelling Components

Module 3: Introduction to UML

- Introduction: UML Diagrams
- Activity 7
- Activity 8
- Activity 9
- Wrap-up

Data Modeling

Optional Assessment

Out of class assessment: 1.5 hours duration

A Business Analyst plays an important role between business sponsors, business users, and the technical IT solution development and implementation teams. Success depends on the knowledge and experience of a variety of techniques to gather, model, and document business problems, issues, strategies, and solution requirements. Learn essential data gathering and modelling techniques to choose the right technique for the right situation.

Related Courses

Process Mapping, Analysis and Modelling
Business Process Metrics
Software Tools for Process & Data Modellers
UML for Business Analysts
Database design and SQL Querying
Querying with TSQL