inspired!

Facilitating Desirable Business Change

Techniques and Deliverables of Information Architecture

EXTENSIVELY REVISED TO LATEST PRACTICES AND TECHNOLOGIES 2022 Q3

Duration

4.5 days

Online Delivery

Daily live sessions with lecturer via Zoom.

Access to course content and session recordings via Ruzuku.

Audience and Benefits

The course is designed for data and information architects, senior business analysts, enterprise architects, strategists and business architects who are, or who will become, actively involved in modelling, analysing and shaping the future of information and data used in businesses.

Additional candidates include data managers, database administrators, compliance officers and security and privacy specialists responsible for data related aspects. Those concerned with public data (e.g. the websites, portals, web services and applications exposed outside your traditional user base) will also benefit.

Get Business and Technical People on the same page

Lay a Foundation for Data Management and Exploitation

Build a solid Data Architecture and supporting infrastructure

Hone your Modelling Skills

Link Conceptual, Logical and Physical Views

Support creation of Data-Rich Products and Services

Apply emerging Technologies to best effect

It is a skills course rather than a methodology course, designed to expose participants to leading techniques and ways of presenting models and results of analyses. It draws on our 40+ years experience in information systems and academia as well as industry best practice to deliver a valuable set of tools to equip data and information architects.

Various courses cover aspects of data modelling (e.g normalisation, relational database design) or Structured Query Language, or physical database design for a specific product. There are very few that address the broad requirements of data and information architecture as they apply in the business and as part of an enterprise architecture discipline.

Moving from the conceptual level, through industry and bespoke domain modelling using entity and object oriented concepts, the course covers the vital levels of data modelling and management required to fully understand data and information at an enterprise level.

The course discusses existing and emerging technologies to help the organisation leverage data to strategic advantage: from high volume transaction processing, to data mining, from structured internal data to fuzzy external knowledge, from secure private data to the cloud and distributed mobile applications. It further provides an introduction to the emerging fields of large data, no-SQL technologies and the use of semantic technologies in business.

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Techniques and Deliverables of Information Architecture

Why Inspired?

Delegates will benefit from the expertise of the course leader and his team at Inspired. The course draws on our 40+ years experience in business and academia as well as industry best practice to deliver a valuable set of tools to equip information architects.

Unique content shared

- Inspired approach to identifying subject areas and building Domain Models as a common "Rosetta Stone" between business and technical areas
- Advanced Conceptual Modelling techniques that go beyond Entity Relationship Diagrams and UML Static Structure Models
- Semantic Technologies and their impact on commercial applications
- Digital Disruption and the role of data
- Maturity and Industry Reference Models
- Requirements definition
- Use of patterns
- Interface and integration options
- Relevant latest Technology & choice criteria

Course Overview

The course provides a set of techniques which assist the information architect in understanding the context, the challenges, the opportunities, the risks and the strategic options of an enterprise's use and exploitation of data and fashioning a coherent architecture and plan to realise the organisation's vision with respect to data, information and knowledge.

Rich use of examples and selected short videos stimulate delegates to think beyond the norm and out of the box. We will introduce delegates to sources of information for ongoing enrichment as well.

Case study work in small teams allows delegates to perform analysis and devise architectures and strategies. Teams compete and learn from each other before experiencing another facet of the challenge.

The course stresses holistic consideration and the interplay of many facets that affect the outcome of architecture decisions.

Comments from Past Delegates

"Good coverage of conceptual and logical modelling."

"Semantic Technologies and Open Data were mind blowing. Lots of commercial potential."

"I am from a relational background. Now I get what the No-SQL movement is about."

"Domain modelling provides great easy technique to understand data at a business level."

"Liked the coverage of big data and visualisation."

"I previously battled to get training to feel competent as an information architect. This has really helped!"

"Meta data importance came home to me."

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Typical Coverage

Course content includes (subject to change):

Detailed coverage of information architecture, including:

- Data Management Maturity Assessment
- Conceptual / Domain Modelling
- Logical Data Modelling
- Class & Entity Modelling
- Industry Reference Models/Frameworks
- Relational Modelling
- Semantic Modelling and introduction to semantic technologies
- Business Intelligence
- Meta Data
- Data Management
- Information Security and Privacy
- Big Data
- Evolving Data Technologies including: NoSQL, Graph Databases, In-memory stores, Free Text handling & Streaming
- Visualisation (e.g. Data Driven Documents (D3))

Platform

To support learning, we use the Ruzuku course delivery platform. This allows us to provide course overviews, online enrolment and payment, online course structure and progress tracking, forums for student collaboration, recorded session videos and support materials such as white papers, readings, example models and video clips.

We make use of Zoom for live lectures with rich student interaction via video, audio, screen sharing, break-away rooms and chat facilities. Students will need a PC / Mac / high end tablet and a reliable Internet connection to participate.

We will share examples in our enterprise level enterprise modelling and knowledge management platform: Enterprise Value Architect (EVA) to demonstrate what an integrated tooling environment can achieve. Of course, techniques can also be supported by other competent toolsets.

Provided Materials

Delegates will be provided with high quality notes and links to media and references to pursue further investigation.

Location, Costs and Dates

This course is currently offered internationally for remote delivery. Please see our schedule on the website for dates. If you would like to arrange an in-house course, please contact us.

Need to Discuss Something?

Please contact us!

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