

inspired!

Facilitating Desirable Business Change

Application Architecture & Portfolio Management



Duration

3 days

Online Delivery

Daily live sessions with lecturer via Zoom.

Access to course content and session recordings via Ruzuku.

Applications are Vital

In modern business, data, applications and interfaces to them (APIs and UIs) are often the lifeblood of delivering customer service and value for stakeholders. The application portfolio represents a massive investment which must be used strategically. At the same time, we are challenged by legacy systems, technologies and technical debt. Application Architects and Portfolio Managers are essential in assisting organisations to succeed and to do it sustainably.

Audience and Benefits

The course is designed for application architects, portfolio architects, application portfolio managers, senior systems analysts, enterprise architects and integration architects who are, or who will become, actively involved

Use powerful techniques to analyse and optimise your application portfolio, eliminate redundancy and fill gaps in capabilities

Guide creation of well structured and maintainable applications which will have a long and productive life and positive ROI

Understand the context, challenges, opportunities, risks and strategic options of an enterprise's use of technology and applications

Choose between integration strategies at the application, enterprise landscape and ecosystem level

Fashion a coherent architecture and plan to realise your organisation's vision with respect to application support for business, processes and digital operating models

Get to grips with many new options in application design including web, mobile, cloud, APIs, containers, serverless, open source and AI

Understand the data & BI options available beyond relational database, including document, NOSQL and semantic stores

in specifying, modelling, analysing and integrating application systems used in businesses.

Typical candidates also include senior business analysts and security and privacy specialists responsible for application related aspects. Those concerned with public applications (e.g. the websites, portals, web services, mobile apps and applications) exposed outside your traditional user base will also benefit.

The course takes an enterprise/portfolio view. It is a skills course rather than a methodology course, designed to expose participants to leading techniques and ways of analysing applications, landscapes and the portfolio and making decisions based upon current reality and future goals, while taking advantage of emerging technologies.

There are many courses addressing Enterprise Architecture from a methodology point of view (e.g. Open Group TOGAF® or Zachman Framework). There are also courses that address specific vendor applications such as SAP, Oracle, Microsoft, etc.

The former lack detail on how to model applications architectures, how to analyse the

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resulting models and strategies to achieve better solutions, integration and quality.

The latter are too specific and do not address the broader issues of interfaces, interoperation and integration.

Neither address the financial perspective of applications as assets, capital and operational budgets (CAPEX, OPEX).

Why Inspired?

Delegates will benefit from the expertise of the course leader and his team at Inspired. The course draws on our 30+ years experience in business and academia as well as industry best practice to deliver a valuable set of tools to equip application architects and portfolio managers.

Unique content shared

- Application Architecture and Portfolio Management meta model
- Composite applications using components, APIs, services and multiple technologies
- New technology impact: Internet of Things (IOT), Mobile and Wearables, Cloud and Virtual, Big Data, Semantic Technologies, AI and Machine Learning

- Digital Disruption and the role of applications
- Maturity and Industry Reference Models
- Requirements definition
- Use of patterns
- Interface and integration options
- Technology choice criteria

Course Overview

Moving from the conceptual level, through logical applications and down to physical applications and components, the course covers the levels of application modelling and management required to fully understand applications at an enterprise level. It also discusses existing and emerging technologies to help the organisation leverage application investment to strategic advantage, from high volume transaction processing, to decision support, from secure private data to distributed mobile applications. It covers SaaS, cloud and hybrid applications.

Examples and selected short videos stimulate delegates to think beyond the norm and out of the box. We also connect delegates to sources of information for ongoing enrichment. 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 factors that affect the outcome of architecture, modelling and design decisions.

Typical Coverage

Course content includes (subject to change):

Detailed coverage of application architecture, including:

- Changing Context & Expectations
 - Technology Capabilities
 - User Expectations
 - Extended Value Chains
 - Multi-sourcing & Services
 - Internet of Things
 - Mobile and Wearables
 - Cloud & Virtual
 - Big Data
 - Web 3, Semantic
 - Digital Disruption
 - Analytics & Visualisation
 - *continued...*

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Coverage Continued

- Application Architecture
 - Baseline
 - Meta Model
 - Collection
 - Analysis
 - Reference Models
 - Gaps, Redundancies, Opportunities
 - Health, Maturity
 - Target
 - Goals
 - Principles
 - Building Blocks
- Project Related
 - Work Packages
 - Roadmap
 - Governance
 - Guidance
- Portfolio Management
 - Portfolio Thinking
 - Apps as Assets
 - Lifecycle
 - Technical Debt
 - Application Renewal
 - Application Selection
 - In and Outsourcing
 - Interfaces and APIs
 - Migration and Evolution

Platforms



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 online and live during Europe, Middle East and Africa work hours. Please see our schedule on the website for dates and price in your region.