

# inspired!

Facilitating Desirable Business Change

## Techniques and Deliverables of Application & Solution Architecture



### Duration

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 application architects, solution architects, application portfolio managers, senior systems analysts, enterprise architects and integration architects who are, or who will become, actively involved 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.

**Understand the key aspects of creating well structured and maintainable applications which will have a long and productive life**

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

**Understand the data storage options available beyond relational database, including document, NOSQL and semantic stores**

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

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

**Understand how to use powerful techniques to analyse and optimise your application portfolio, eliminate redundancy and fill gaps in capabilities**

**Learn how to fashion a coherent architecture and plan to realise your organisation's vision with respect to application support for business and processes**

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.

There are now quite a few courses addressing Enterprise Architecture from a methodology point of view (e.g. Open Group TOGAF or Zachman). 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 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.

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## Techniques and Deliverables of Application & Solution Architecture



### Why Inspired?

Delegates will benefit from the expertise of the course leader and his team at Inspired. The course draws on our 25+ years experience in business and academia as well as industry best practice to deliver a valuable set of tools to equip application architects.

### 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
- 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 further provides an introduction to the emerging fields of SaaS and cloud based applications.

Examples and selected short videos stimulate delegates to think beyond the norm and out of the box. We will connect 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 factors that affect the outcome of architecture, modelling and design decisions.

### Comments from Past Delegates

*“Separation of services and implementation good.”*

*“Blends Application Portfolio and Architecture aspects with Solution issues.”*

*“Great to see web, mobile and semantic technology covered.”*

*“Finally understand Web Services.”*

*“REST covered and contrasted with SOAP. Well done!”*

*“User experience importance made clear.”*

*“I can see how we can manage our applications as a portfolio for business value”*

*“The Open-API world was an eye-opener for me”*

*“Will help us design better solutions.”*

*“Integration technologies the highlight for me.”*

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## Techniques and Deliverables of Application & Solution Architecture



### Typical Coverage

Course content includes (subject to change):

Detailed coverage of application architecture, including:

- Logical Applications
- Interfaces and Services
- Logical and Physical Components
- Archimate® depiction of applications and related concepts
- Reference Frameworks
- Portfolio management
- Linking applications to business processes, information and technology architectures
- Application Security
- Usability Considerations
- Application Integration Technologies and Strategies
- Typical Solution Architecture Patterns (Java, .net, LAMP)
- Interfacing standards, including Web Services (XML, WSDL, SOAP, UDDI) and REST/JSON
- Web applications and web services
- Mobile and Cloud Applications
- Example of Application Portfolio Management Tooling

### Platform



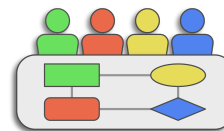
To support learning, we use the Ruzuku course delivery platform.

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.