

Data Architect Certification

Why the certification is relevant

A Data Architect is a practitioner of data architecture, a data management discipline concerned with designing, creating, deploying and managing an organisation's data architecture. Data Architects define how the data will be stored, consumed, integrated and managed by different data entities and IT systems, as well as any applications using or processing that data in some way. After assessing your organisation's potential data sources (internal and external), Data Architects design a plan to standardise, integrate, centralise, protect and maintain them. This allows other employees to access critical information in the right place, at the right time. In today's global market, Data Architects are required to be analytical and problem-solving, effective communicators, experts in data management as well as possess a great deal of industry knowledge.

Focus of the Data Architect

The Data Architect Program has been structured to build on the existing capabilities of the practitioner, and to infuse a new way of thinking, working and modelling. It combines a mix of information architecture skills (e.g. data taxonomy, ontology, and artefacts such as data maps, matrices and models) with enterprise architecture to enable technology architecture and modelling disciplines to be managed effectively by the practitioner. The Data Architect Program can be integrated into any relevant organisation. It does so by adding the following theory, practice and modelling capabilities.

Theories Practitioners will learn

- Data design
- Identify data and technology requirements
- Focus on data pain points and bottlenecks
- Focus on data analysis and management
- Develop data standards

What Practitioners will work with in Practice

- Work with business and IT owners/executives
- Define data standardisation and integration
- Define data components, rules and compliance
- Define data objects
- Define data services, media and channels

Modelling capabilities Practitioners will gain

- Develop Data Forces & Drivers Map
- Develop Data Requirements Map
- Develop Data Services Map
- Develop Data Objects Map
- Develop Data Map

Enterprise Standards used

OMG (software standards):

- BPMN – Business Process Modelling Notations
- CMMN – Case Management Modelling Notation
- UML – Unified Modelling Language

LEADIng Practice (Enterprise Standards):

- Emerging & Disruptive Data Trends & Forces
- Data Ontology
- Data Taxonomy
- Data Classification & Categorisation
- Data Artefacts
- Data Architecture Modelling
- Data Lifecycle
- Data Meta Model

ISO 42010 Systems & Software Engineering

Zachman Framework (Interrogatives)

ITIL 3 (IT delivery concept)

COBIT (Governance)