

Data Analyst Certification

Why the certification is relevant

Every organisation needs a Data Analyst cleaning the data, performing data analysis and presenting information with clear and meaningful visualisations. The role also entails discovering patterns in data and providing insights that may require further attention from statisticians and machine learning engineers. Whilst we have smart machine learning algorithms that can analyse and interpret data, producing content for dashboards and printable reports. There is a growing demand for "interpretation of data," which machines have not fully mastered as yet.

Focus of the Data Analyst

There is an increasing rate of change in business and technology within the context of data usage, creation and analytics. The focus of the Data Analyst is that they work with data to help their organisations make better business decisions. Therefore, the Data Analyst role is uniquely designed to meet the needs of today to instill new cross-functional skills that support organisations to bridge the gap between data usage and data insight. Using techniques from a range of disciplines, including computer programming, mathematics, and statistics, Data Analysts draw conclusions from data to describe, predict, and improve business performance. They form the core of any analytics team and tend to be generalists versed in the methods of mathematical and statistical analysis. The Data Analyst Program can be integrated into any relevant organisation. It does so by adding the following theory, practice and modelling capabilities.

Theories Practitioners will learn

- Capture forces and disruptive data trends
- Understand data strategies
- Map data capabilities
- Data management
- Analyse data performance

What Practitioners will work with in Practice

- Work with stakeholders, business and IT owners
- Benchmark data performance
- Data Model development
- Data Model design
- Develop data guidelines

Modelling capabilities Practitioners will gain

- Stakeholder Map development
- Data Requirement Map development
- Develop Data Strategy Maps
- Define Data Capability Maps
- Create Data & Information Object Maps

Enterprise Standards used

OMG (software standards):

- BPMN – Business Process Modelling Notations
- CMMN – Case Management Modelling Notations
- DMN – Decision Modelling Notations

LEADIng Practice (Enterprise Standards):

- Emerging & Disruptive Data Forces & Trends
- Data Ontology
- Data Taxonomy
- Data Classification & Categorisation
- Data Artefacts
- Data Modelling Notations (DaMN)
- Data Lifecycle
- Data Meta Model

Open Group Business Architecture

IEEE Process Engineering standards

ISO 42010 Systems & Software Engineering

ITIL 3 (IT delivery concept)

COBIT (Governance)