
Overview

This sub-discipline Data Analysis (802) is concerned with the competencies required to perform detailed of data within an organisation with a view to providing new administrative and other information to aid decision making that will enhance financial and other business performance criteria (e.g. related to sales, products, markets, services, efficiency etc). This involves undertaking tasks to design data studies, collect, visualise and analyse data using a variety of statistical techniques and apply a range of tools and techniques.

Working in the senior professional role (8025) is primarily focussed on managing data analysis services for internal and/or external customers.

Performance criteria

You must be able to:

1. manage an analyst team to perform data analysis to meet organisational requirements
2. deliver high quality data analysis of higher level complexity that will determine and prioritise areas of focus for the organisation
3. perform statistical programming utilising a range of statistical software packages
4. summarise data and create reports and visual representations in line with organisational procedures
5. lead the implementation and maintenance of the data analysis framework and associated data analysis processes, policies, standards, and metrics as required
6. create and maintain data models, metadata repositories and data catalogs in line with organisational procedures
7. regularly review all data in scope, how it is optimised and made available for delivery
8. highlight and resolve any data quality issues arising from reviews in line with standard organisational procedures
9. identify new kinds, types and sources of appropriate data to drive business innovation throughout the organisation
10. advise internal/external customers in determining the appropriate analytical methodology to meet their needs and achieve their objectives
11. communicate the results of analysis to internal and external customers
12. make appropriate recommendations to internal and external stakeholders
13. design operational data stores, data warehouses and data marts to support data analytics
14. perform skills and training needs analysis to identify appropriate external training solutions
15. conduct appropriate internal training in data analytics
16. maintain a repository of data analysis, statistical and data management software and computer applications in line with standard organisational procedures
17. recommend the appropriate selection and use of various statistical packages and other software tools in line with organisational requirements
18. contribute to the identification and selection of possible future technologies and techniques

Knowledge and understanding

You need to know and understand:

1. data quality, data integrity and reconciliation standards
2. the different business processes that use and manipulate data
3. how to undertake data analysis of complex problem domains
4. the range of statistical programming techniques used for statistical analysis of data
5. how to use a range of statistical software packages
6. how to design operational data stores, data warehouses and data marts
7. the range and application areas of statistical software packages and dynamic programming languages
8. how to carry out end to end data analysis
9. how to perform training needs analysis
10. the application of data analytics and use of relevant tools and techniques
11. how to maintain a repository of software and computer applications
12. how to scan for emerging technologies

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Manage Data Analysis Services



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