

Pragma Academy

Smart Learning for Smart Asset Management



Data Analysis for Asset Management Decision-making



Learn how to turn data into actionable insights. This course equips you with practical Excel skills and key analysis techniques to support smart, strategic decisions in asset management. Includes self-directed modules, a live engagement unpacking case studies, and a final data-driven presentation.

About this course

Making decisions based on data is crucial in the asset management environment of today. This course gives you the tools to efficiently gather, process, and analyse data so that it may be used to inform strategic choices.

You will build a strong understanding of data principles, data quality, and analysis methods through self-paced learning, with a focus on using Microsoft Excel. A live session will help you see how these concepts apply in the real world by working through practical case studies. Finally, you'll put your learning into action by visualising data and creating a compelling presentation to support informed decision-making.

You'll begin with seven self-directed learning (SDL) modules, designed to build a solid understanding of the theoretical principles of data analysis in the context of Asset Management. Module 04 is longer than the others, as it focuses on using Microsoft Excel for data analysis. It includes hands-on practice with key functions in the software.

The SDL concludes with a quiz, which must be completed before the live engagement session. During the live session, you'll apply the concepts covered in the SDL using case studies. The final course assessment brings everything together, requiring you to visualise data and create a compelling presentation to support informed decision-making.

Course Outcomes

At the end of this course learners will be able to:

- ✓ Explain the role of data analysis in effective asset management decision-making
- ✓ Use Excel to organise and analyse asset data
- ✓ Differentiate between data, information, and knowledge in an asset management context
- ✓ Assess and improve data quality to enhance decision-making
- ✓ Describe the data management process
- ✓ Select and apply appropriate analysis techniques to solve asset-related issues
- ✓ Identify relevant data sources for asset management decision-making
- ✓ Interpret and present data-driven insights visually for stakeholder engagement
- ✓ Explain key considerations for effective data collection

Module 1: An Introduction to Data

Explore the role of data in asset management, and learn how to distinguish between data, information, and knowledge. Understand the full data management process and its impact on decision-making.

Module 2: Data Requirements

Learn how to identify the right data sources to support effective asset management decisions.

Module 3: Data Collection

Discover key principles for collecting accurate, relevant data that can be trusted for analysis.

Module 4: Data Processing

Get hands-on with Excel to clean, organise, and analyse asset data for practical use.

Module 5: Data Quality

Understand how to assess data quality and apply strategies to improve it for better decisions.

Module 6: Data Analysis and Modelling

Learn how to choose and apply analysis methods to solve common asset management challenges.

Module 7: Data Visualisation and Communication

Develop skills to turn analysis into clear, compelling visuals that support stakeholder understanding and buy-in.

Learning journey





Who should attend?

- Maintenance planners
- Maintenance supervisors
- Asset care engineers
- Reliability engineers



Format and duration

- Blended learning
- 24 Notional hours (10 hours self-directed learning, 12 hours live engagement, 2 hours assessment)



Certification

- Learners completing this training can obtain SAAMA CPD points.



RECOMMENDED PRIOR LEARNING

Excel for Asset Management Practitioners



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