

Microcredential

MBSE Essentials For Decision Makers

This course introduces the key principles of Model-Based Systems Engineering and how model-based practices support effective systems engineering and decision making. Participants are introduced to CATIA Magic and the use of industry standards such as SysML, UAF, and SysML v2 to represent and analyse system designs.

Through guided discussion and practical classroom activities, the course demonstrates how system models can be reviewed and analysed to support data-driven engineering decisions within a digital engineering environment.

What is Covered?

- Introduction to systems thinking, MBSE fundamentals, and their application across the system lifecycle
- Overview of CATIA Magic tools and frameworks used to define and manage system models
- Understanding language elements for requirements, system definition, analysis, and verification
- Conducting model-based design reviews, trade studies, and discussions on MBSE adoption strategies

Expected Outcomes

Upon completion of this course, students will be able to:

- Understand MBSE and how it applies to the development, operation and maintenance of a system throughout its lifecycle.
- Understand key MBSE Language and Tool concepts, using CATIA Magic related to the specification, definition, analysis and verification of a mission or system design.
- Apply MBSE as a key decision support capability in an organisation's digital engineering ecosystem.

A laptop is required to access the learning systems and MBSE tools provided via memko's upskill systems

Credential Information

Duration

2 Full Days (Theory + Workshop)

Single day version available

Location

Face To Face

Suitable For

Project Managers
Principal Engineers
Engineering Managers

Cost

Get in touch for pricing enquiries

Contact

For more information and to register contact us:

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Students attending this course should be familiar with Systems and Engineering concepts in general. Specialist engineering qualification is not required to complete this course.

For more information on the advanced course, please get in touch.