

Microcredential

MBSE Fundamentals For Systems Engineering

This course provides a foundational understanding of Model-Based Systems Engineering (MBSE) using the Systems Modelling Language (SysML) to specify, define, and analyse a system of interest in terms of its requirements, structure, and behaviour.

Participants will use the CATIA Magic MBSE toolset to develop a SysML model and apply it to system analysis and design verification. The course combines instructor-led modules with hands-on laboratory exercises to demonstrate how model-based approaches support effective systems engineering practices across the full development lifecycle.

What is Covered?

- Understanding what MBSE is, why it is important, and how it is applied across the system development lifecycle
- Understanding core SysML language concepts related to system requirements, structure, and behaviour
- Creating and analysing SysML system models using CATIA Magic
- Performing system analysis and design verification using model-based techniques
- Understanding adoption considerations for integrating MBSE into organisational engineering practices

Expected Outcomes

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

- Understand what MBSE is, why it is important, and how to apply it throughout the development lifecycle of a system of interest.
- Understand core SysML MBSE language concepts relating to system requirements, structure, and behaviours.
- Create a SysML model to define and analyse a system using CATIA Magic.
- Apply MBSE as a key enabler within their organisation's engineering practices and understand key adoption considerations.

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

Credential Information

Duration

4 Full Days

Location

Face To Face

Suitable For

Principal Engineers, Systems Engineers, System Architects, Specialist Engineers

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 general systems and engineering concepts. A specialist engineering qualification is not required; however, prior experience with MBSE tools and modelling languages is highly recommended.

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