MICROCREDENTIAL COURSES

# MBSE Fundamentals using SysMLv2

***This 4-day course*** *provides a fundamental understanding of Model Based Systems Engineering (MBSE) by using the Systems Modelling Language V2 (SysML) to define a system's structure and behaviour in accordance with its specified requirements and constraints. Students will also learn how to use the CATIA Magic toolset as a cornerstone to an organisation's Digital Engineering solution.*

Monday 15th – Thursday 18th June 2026
9:00am – 5:00pm

Venue:
MEMKO - L28, 303 Collins Street, Melbourne,
VIC 3000, Australia

Course managed by MEMKO Systems, ABN 89 619 452 158

# COURSE REGISTRATION

MBSE Fundamentals: Face to Face

Name: _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

Company: _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

Address: _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

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Telephone: _ _ _ _ _ _ _ _ _

E-mail: _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

**Registrations close Friday 5th June 2026**

Email this form with your payment details to:

MEMKO Systems
Email: training@memko.com.au

**Payment Method:**

☐ Bank transfer ($4,065) to MEMKO Systems P/L BSB 033-060 Ac 437504
Charge my credit card:

☐ Visa ☐ MasterCard Amount: $ 4,065 (inc. GST)

Number: _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ CVC: _ _ _ _

Card expiry: _ _ / _ _ Cardholder Name: _ _ _ _ _ _ _ _ _ _ _ _ _ _

**Cardholder's Signature:** _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

For further info, please contact MEMKO on 03 8605 7777 or training@memko.com.au
Tax invoices/receipts will be emailed to above email address.

FM-1410

## COURSE DESCRIPTION

The course will cover the following topics:

- Understanding the application of MBSE languages, methods and tools
- Introduction to the SysML MBSE language
- Understand the SysML language features required to define static and dynamic system models
- Understand how to apply SysML modelling in MBSE tools
- Understand the applications of MBSE as part of a Digital Engineering solution

## COURSE OBJECTIVES

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

- Understand MBSE and how it applies to the development and sustainment of a system throughout its lifecycle
- Understand key MBSE Language and Tool concepts, using CATIA Magic and SysMLv2, related to the specification, definition and analysis of a system
- Apply SysMLv2 in the definition of a system using the CATIA Magic toolset

## COURSE LECTURER

**Sam Mancarella**

*Systems Engineering Director, MEMKO*

Sam qualified in Computer Engineering and Science and holds an MBA from RMIT University. He has over 25 years' experience as a cyber systems expert, ranging from digital transformation, IT systems development, software engineering and technology portfolio management. Sam is an expert in Model Based Systems Engineering (MBSE) and Enterprise Architecture, helping customers adopt industry standards and best practices to deliver sustainable competitive advantage in a wide range of industries including Defence, Government, Telecommunications and Maritime within Australia and North America. He has a deep understanding of MBSE standards such as SysML, UML, Archimate, BPMN, UPDM (now UAF) and DDS, working alongside industry leaders to adopt innovative products and services based on these technologies. Sam is passionate about the integration of data, systems, processes and people to deliver innovative solutions and enduring customer value.

## COURSE ACCREDITATION

All participants who successfully complete this microcredential will receive a certificate of completion at the end of the course delivery.

## COURSE PREREQUISITES

Students attending this course should be familiar with Systems and Engineering development in general. Specialist engineering qualification is not required to complete this course. This microcredential is suitable for principal engineers, systems engineers, system architects, and specialist engineers.

## COURSE FEES

Fee for this 4-day course is $3,695 plus GST ($4,065). This includes course notes. Course fees will be returned less a $50 administration fee, upon receipt of a written cancellation notice before Friday 5th June 2026.

MEMKO reserves the right to cancel the course, in which case participants will be notified and the course fee will be returned in full. To avoid potential inconvenience, we recommend delaying any non-refundable travel or leave arrangements until the course is officially confirmed.
**Places are limited**.