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MBSE for Beginners

A one-day introduction to Model-Based Systems Engineering, covering: MBSE in One Slide; evolution of MBSE in your organisation; structural and behavioural modelling; key SysML diagrams.

Duration: 1 day

Introduction to Model-Based Systems Engineering

- The need for MBSE
- The MBSE Mantra
- MBSE in One Slide
- The evolution of MBSE in your organisation

This introductory module establishes the need for MBSE, introduces the **MBSE Mantra** of People, Process & Tools, gives an overview of **MBSE in One Slide** and discusses the evolution of MBSE in your organisation

The Art of Modelling

- The importance of modelling
- Structural modelling with SysML
- Behavioural modelling with SysML

An essential enabler for MBSE is modelling. In this course we consider what we mean by a model, why, what, where, when and how we model in an MBSE approach.

We introduce the SysML modelling language, cover the two key aspects of modelling: structural modelling and behavioural modelling, and introduce the key SysML diagrams that are the most useful to someone starting in MBSE. The emphasis here is on understanding what we mean by modelling, the aspects of a model and to introduce delegates to the most commonly used Systems Engineering modelling language (SysML), giving them an appreciation the importance of building a true, consistent collection of views that make up a model, rather than just a collection of pictures.
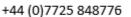
Target Audience

This course is aimed at anyone who wants to find out more about MBSE, with a view to gaining an understanding of what MBSE is, along with some of the key considerations in implementing MBSE in an organisation. The course requires no prior knowledge of any specific notations, modelling languages nor tools.
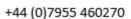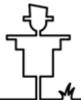
Benefits

The benefits of this course are as follows:

- Understand the need for MBSE and the importance of People, Process and Tools
- Understand the activities necessary to see your organisation evolve into a mature MBSE organisation

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- Understand the importance of modelling and its role in MBSE
- Understand the key concepts of structural and behavioural modelling
- Understand the basics of the key SysML diagrams

Prerequisites

Delegates without an awareness of the fundamentals of Systems Engineering and modelling are required to watch a number of short Systems Engineering primer videos (total length less than 1 hour) prior to attendance on the course.

Material

Face-to-Face Courses
Delegates receive PDF copies of the course notes, summary sheets and both physical and eBook copies of the book *'Don't Panic! The Absolute Beginner's Guide to Model-Based Systems Engineering'* written by the course tutors and published by INCOSE UK.

Remote Courses
Delegates receive PDF copies of course notes and summary sheets, along with an eBook version of *'Don't Panic! The Absolute Beginner's Guide to Model-Based Systems Engineering'* written by the course tutors and published by INCOSE UK.

More Information

For more information on this course, or any of our other offerings, please contact Scarecrow Consultants Limited using the details above.