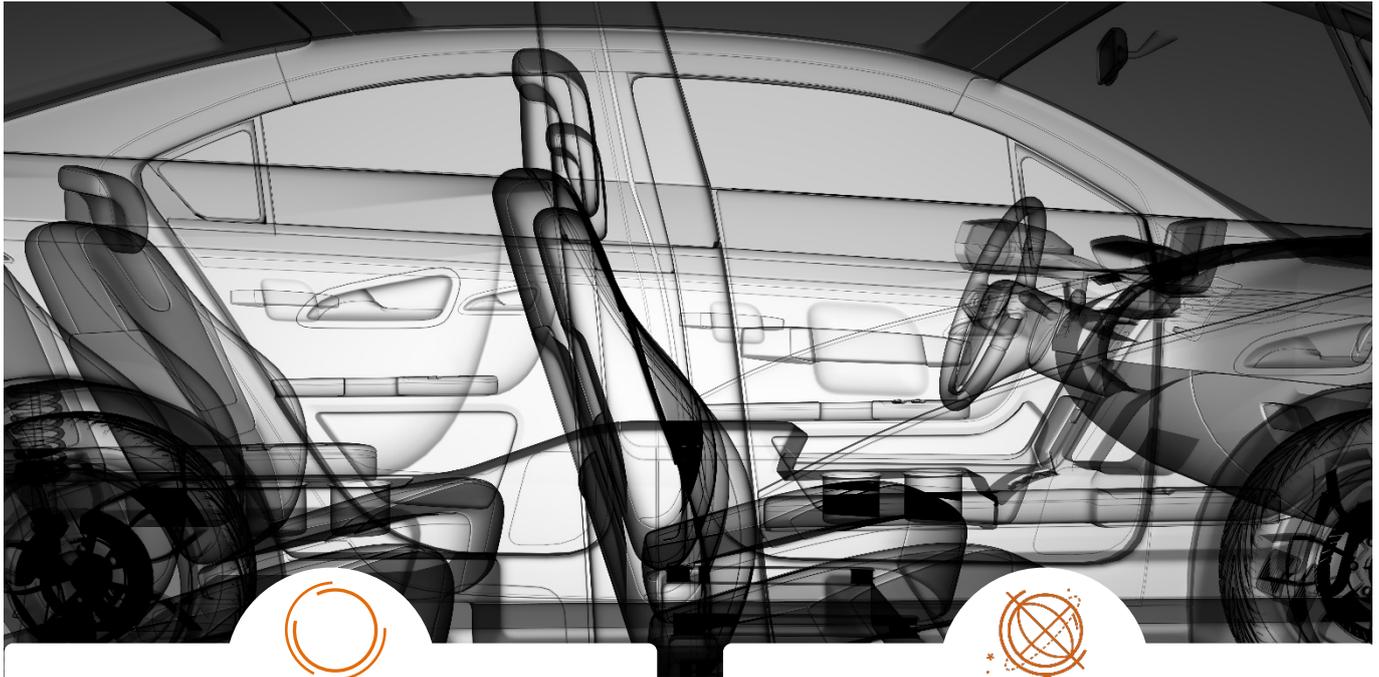


Automotive Systems Engineering and Training to Accelerate Development Programmes

It is well documented that there is a strong, direct relationship between experience and the likely success of future projects. Experience can be acquired quickly by buying services or by recruiting, but sustainable experience can often be achieved through organic development. The start of the process is always training, whether this be through private study and experimentation, or in a formal classroom or lecture theatre environment. As an active member of the International Council On Systems Engineering (INCOSE) community, we have a portfolio of systems engineering training solutions which cater for the automotive industry. Our specialist training includes:



Requirements Capture & Management Training

Requirements management is widely regarded as the aspect of systems engineering that underpins most of the other processes; a properly organised approach to requirements management provides the structures around which the systems engineering process can operate. The systems engineers at SyntheSys have considerable experience of guiding organisations through the underpinning process and methodology for effective and sustainable requirements management.

We offer tailored requirements management training which enables students to:

- Express requirements clearly;
- Distinguish different types of requirements;
- Avoid common pitfalls;
- Identify the importance of structure in requirements authoring;
- Write high quality requirements.

Our training helps students develop the skills and knowledge required to write effective requirements by teaching the principles, methodology and practices.

Systems Engineering Foundation

Our Systems Engineering Foundation course has been designed to provide a high-level foundation to the principles and practices of systems engineering.

The course is aimed at those whose role heavily integrates with a software or systems development process and is suitable for both engineers and non-engineers at all levels.

The course content is aligned with the INCOSE Systems Engineering Handbook and provides an introduction and overview of the processes required for successful systems engineering delivery of projects.

Presented by an experienced systems engineering practitioner, the course examines the role and benefits of applying systems engineering principles within your organisation.



INCOSE Certified Systems Engineering Practitioner (CSEP) Accreditation Preparation Course

This is a five-day course which equips students with the knowledge and structure of the INCOSE Systems Engineering Handbook, and its constituent processes to prepare for the CSEP examination.

The course combines real-world scenarios with theory, presented in the INCOSE Systems Engineering Handbook, to provide students with a unique learning experience which will enable them to comfortably sit the INCOSE CSEP examination.

Presented by a fully accredited, qualified CSEP instructor, the course examines the role and benefits of applying systems engineering principles within an organisation. We teach students how to apply this theory, and how to use the correct terminology to convey this process and complete a series of exercises, which will prepare them for the exam.



IBM Watson Internet of Things (IBM Watson IoT™) Tool and Application Training

As an IBM Watson IoT™ Gold Business Partner, SyntheSys provides a unique blend of application knowledge, experience and a flexible delivery mechanism, which provides customers with the right software solution and a deeper understanding of the tools to ensure maximum benefit. Our ability to work with IBM® to distribute IBM Watson IoT™ software is built on a firm foundation of industry know-how and extensive knowledge of the IBM Watson IoT™ tools which enables us to distribute the tools in a value-added way. Our broad expertise of IBM® Engineering Requirements Management DOORS® Family, IBM® Engineering Requirements Management DOORS® Next, IBM® Engineering Workflow Management, IBM® Engineering Lifecycle Optimization – Publishing and IBM® Engineering Test Management, makes us best placed to offer a value-added service throughout the IBM Watson IoT™ community. Our offerings stretch much further than deployment of technology. We offer training courses which teach students on the implementation, application and acceleration of IBM Watson IoT™ software products.



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Training Success Within the Automotive Industry

As an IBM® Gold Business Partner with an acknowledged and certified expertise with IBM Watson IoT™. SyntheSys is proud to have supported one of the most pioneering automotive manufacturers in the world, Jaguar Land Rover (JLR). JLR is an extensive user of IBM® requirements management solutions within the engineering business. Following a rapid expansion in staff, it was identified that the process and methodology for writing requirements within the organisation would benefit from a consolidated and coherent approach. Working with IBM® and JLR, a one-day training course was devised and maintained in the principles of requirements writing, which focuses on the underlying methodology regardless of tool usage. In recognition of our skills in this area teamed with our systems engineering training capabilities, we have successfully delivered 60 one-day courses to over 800 employees at JLR.

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About SyntheSys

SyntheSys provides defence systems, training, systems and software engineering and technical management services over a spectrum of different industry sectors. Along with distinct support and consultancy services, our innovative product range makes us first choice provider for both large and small organisations. Established in 1988, the company focus is on fusing technical expertise with intuitive software applications to solve common industry challenges.

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