CONFIGURATION MANAGEMENT

Upcoming Dates

27.05.2024, Zurich

Course Descriptions

Managing the complexity of products along their lifecycle is an increasing challenge in many industries. Knowing and controlling the state of mechatronical systems during development, in the supply chain and after sales is a basic requirement for today`s manufacturer. Manyfold requirements set by customers and regulatory bodies, paired with increasing number of product variants set challenges for managing product data, documentation and changes along the product`s lifetime.

Configuration Management helps to manage this complexity and to enable efficient development and operations of systems.

The objectives of Configuration Management are to:

• Manage all relevant product data and documentation in the product context
• Provide a consistent and complete view about all product components and their valid documentation along the lifecycle phases (Analysis, Feasibility, Development, Implementation and Manufacturing, Operations and Service)

• Integrate the product data management in the product lifecycle processes (development, testing, supply chain, operations, logistics, maintenance)
• Manage product variants, changes in the product`s definition and configuration baselines
• Support efficiency in the value chain.
• Enable the delivery of new services.

In this one-day course a basic understanding will be provided about how Configuration Management supports each stage of the product lifecycle starting with the first product idea until retiring complex industrial systems. We will learn about the different Configuration Management activities and how they help us making complexity manageable. By walking through the product lifecycle, we will highlight in this course the needs of the different lifecycle phases. Through examples we identify different approaches how to avoid common pitfalls and how to tailor the Configuration Management process to their needs.

Learning Outcomes

• Understanding product lifecycle from the perspective of the product`s data.
• Understanding the requirements for managing product data according to the individual needs of an industiral company or a specific project.
• Getting familiar with common terms, methods and approaches required to understand in order to set up a proper Configuration Management process in your project.
• Experiencing the challenges in product data management based on a simple mechatronic system example.

Who Should Attend?

• Systems Engineers
• Development Engineers
• Project Leads
• Requirement Engineers
• Verification and Validation Engineers
• Quality Engineers

All who are interested in this subject and want to learn about it during an one-day opportunity.

Course Rates

Regular: 800 CHF

Duration

1 day

Delivered By

Seb Klabes

Sebastian has authored and reviewed numerous publications and likes to implement systems engineering principles.

After working at the Institute of Transport Science of RWTH Aachen as research associate, he worked at the German Aerospace Centre as Project Officer and as Project Systems Engineer at Bombardier.

Currently, Sebastian is heading the RAMS department at Siemens' Mobility division. He is actively involved in the committee of the Swiss Society of Systems Engineering, is a certified Systems engineering professional and is giving systems engineering training at Siemens.

Sebastian enjoys approaching organisational and technical challenges with a 'rock solid' systems thinking approach.

Kevin Howard

Dr Kevin Howard has more than 40 years' experience in engineering. He initially worked in radar and radio frequency systems, and for the last 25 years has focused on Systems Engineering and managing complexity. He has been Chief Engineer for a range of systems ranging from military vehicles to space-based sensor systems. He has been VP Systems Engineering for a Global organisation providing safe city and big data technology. He now provides Systems Engineering consultancy, and as Engineering Director helped establish Optima Systems Consultancy Ltd as one of the leading Systems Engineering specialists providing consultancy to the defence and energy sectors around the world.

Kevin has a PhD in Optimising Complex Systems, supported by Post Graduate qualifications in Psychology and Business Administration. He is a Chartered Engineer, an external examiner for Cranfield University.