SYSTEMS RELIABILITY

Upcoming Dates

28.05.2024 - 29.05.2024, Zurich

Course Descriptions

The system reliability course provides in depth knowledge and training on the practical analysis and modelling of system reliability. The participants will firstly be introduced to the relationships between reliability, availability and maintainability. They will learn how to manage availability and maintainability while analysing and determining the system's reliability. The participants will not only learn about the concepts but will deepen their understanding in workshops.

Course Outline:
• Introduction to reliability concepts and reliability models
• Calculation, Analysis and Prognosis of Reliability
• Failure Modes and its use in FMECA
• Assuring System reliability
• Providing Evidence of System's reliability

Learning Outcomes

Participants know how to analyse, model and predict system reliability.

Participants understand the common reliability terminologies and commonly used reliability models.

Participants learn and practice :
• Functional Failure Modes, Effects, and Criticality Analysis (FMECA)
• FMECA's for Electro-mechanical systems
• Analysis, prediction and monitoring of system reliability

Who Should Attend?

• Engineers
• Quality Assurance Managers
• RAM Managers
• Reliability engineers and anyone who needs to assure and/or analyse system's reliability.

Course Rates

Early Bird: 1,350 CHF; Regular: 1,500 CHF

Duration

2 days

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.