



# SYSTEMS ENGINEERING: IN A NUTSHELL

## ***Course Descriptions***

Are you curious about the role of a Systems Engineer? How are they different to other engineers and what benefits do they bring to teams and organisations? Are you considering employing a systems engineer but would like to have more clarity about the role first?

Or perhaps you would like to understand the discipline of Systems Engineering a little more? What is it and why does your company need it? How can it enhance complex product design, development and realisation? How does Systems Engineering relate to your department?

If these are the questions that you would like the answers to then let Systems Engineering expert Mike Johnson help. He will explain the who's, what's and why's of Systems Engineering in a straightforward way. By giving you real-life examples of how Systems Engineering can add value to your organisation and efficiency to your projects (think improved processes, revenue targets, quality & performance) you will have a clear understanding of both the role and the discipline.

Mike will also discuss pointers to include in your job advertisements for Systems Engineers' positions as well as highlight which qualifications, experience and skills

make a well-rounded Systems Engineer.

You will also learn some handy tips for interview questions so you can feel confident in selecting a suitable candidate for your team/organisation.

This is an interactive course with opportunities to ask questions throughout.

### ***Learning Outcomes***

- Understand the basic principles of the Systems Engineering discipline benefiting the adjacent departments such as, Human Resources, Quality, Procurement, Finance, Operations and Support.
- Understand the value of Systems Engineering.
- Understand the role and responsibilities of a Systems Engineer.
- Understand the value a Systems Engineer can add to a team or organisation.
- Understand how to attract a quality Systems Engineer to your company when advertising for a position.
- Know what to ask in an interview.
- Know what to look for when selecting a candidate.

### ***Who Should Attend?***

- Human Resources
- Quality engineering Department
- Finance and Procurement Departments
- Operations and Support Departments

### ***Course Rates***

Early Bird: 360 CHF | Regular: 400 CHF

### ***Duration***

0.5 day

### ***Delivered By***



**Mike Johnson**

Mike has worked leading challenging product development roles predominantly in the Space and Defence Industries since completing his Masters degree in Photonics and Optoelectronic devices at the University of St Andrews, UK.

He has worked predominantly in the roles of Systems Engineer, leading technical developments involving inter-disciplinary teams often consisting of Mechanical, Electrical, Technology, Software and Optical Engineers. He worked at RUAG Space, Zürich for five years. During this period he moved into management, leading the Systems Engineering group in the product unit Optoelectronics and Instruments. In addition he gave Systems Engineering training courses to the employees across the whole company, training circa 100 Engineers from a beginners to an advanced level.

Having moved to Roche Diagnostics International to lead the Systems Engineering team in Rotkreuz, Switzerland, he is now passionately applying his experience and knowledge of Systems Engineering to the Healthcare industry.

He is passionate about product development and especially the application of Systems Engineering. He is one of the founders of the Swiss Society of Systems Engineering (SSSE) and regularly attends Swiss based IET and INCOSE lectures/seminars. He is the organiser of SWISSED, Switzerland's annual conference on Systems Engineering. In addition, he is the co-founder of SE-Training GmbH, specialising in high quality delivery of Systems Engineering training courses in Switzerland.

Chartered Engineer (IET 97325920) and Chartered Systems Engineering Professional (CSEP).