

Training System architect(ing)

This training starts on: 23-03-2020

Location: Zwolle
Price: 2.950,00 euro excl. VAT
Duration: 5 consecutive days
Contact: training@hightechinstitute.nl, +31 85 401 3600

Overview

System architecting is the art and science of designing and building multi-disciplinary systems. The responsibility and the challenge for the system architect is to translate the requirements of the many stakeholders into a system architecture blueprint. He/she will do this based on a solid knowledge of the problem domain, the business context, the human context, the solution domain, technology roadmaps and preceding architectures. The system architect provides the vision, develops the outline for an integral design, keeps the overview and takes care of the design consistency. He/she provides the context for the development activities that will be carried out by large multi-disciplinary teams of specialists.

This course is designed to give system architects a clear view of their role and responsibilities in the multi-disciplinary environment. Participants receive instruments (like CAFCR) to tackle architectural issues, e.g. how to balance the many, often conflicting requirements, how to set up a Roadmap and the basics for creating a business case.

The course gives a complete overview of the broad playing field and a variety of viewpoints that a system architect needs to manage. It contains many short exercises, worked out in small groups, that help to experience the broadness of the field. The addressed subjects help to understand the influence of the organization structure, the importance of focusing not only on technical aspects but also on business, process and human aspects and how to cover multidisciplinary aspects.

Course editions are being organized throughout the year in Delft, Eindhoven and Zwolle. The training is available for in-company editions all over the world too.

Relevant articles and interviews

Intended for

(Potential) system architects, system group leaders, system engineers, senior designers and project leaders. A few years of experience in system or product development, from any discipline like mechanics, physics, mechatronics, electronics or software, with an interest in the integral multi-disciplinary architectural issues and affinity with the business aspects is essential.

Objective

After successful completion of this course, the participant will have:

- Insight in the role of System architecting in the Product creation process
- Insight in the role, profile and skills of the system architect
- Insight in lean and agile processes, focussing on efficiency and effectiveness

Information is subject to change. Please contact [High Tech Institute](https://www.hightechinstitute.nl) for the latest course information and time schedule.

Partner

Certified by

Euspen

Certification

This course is certified by the European society for precision engineering & nanotechnology (euspen) and the Dutch Society for Precision Engineering (DSPE) and leads to the ECP2-certificate.

Course leader

Ger Schoeber BSc

Teacher

Lud Engels

Timetable

23-03-2020 | 09:00 - 17:00
24-03-2020 | 09:00 - 17:00
25-03-2020 | 09:00 - 17:00
26-03-2020 | 09:00 - 17:00
27-03-2020 | 09:00 - 17:00

- Insight in the requirements capturing process
- Insight in the CAFCR framework
- Insight in multi-disciplinary models and views
- Insight in system decomposition and system integration
- Insight in roadmapping process and the role of the System Architect in that process
- Experienced the importance of communication and insight in how to bring a technical message to higher management

Programme

- System architecture process in relation to Product creation process
- Roles and tasks of a system architect
- Lean, agile, incremental development processes
- Modeling and views
- The CAFCR framework
- Requirements capturing
- Functional and non-functional or quality requirements
- System partitioning and decomposition
- System integration strategies
- Human aspects of the system architect role
- Roadmapping
- Financial aspects