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System Requirements Engineering

Start date
02-03-2027

Location
Multiple locations

Price per participant
€1,515.00 excl. VAT.

Duration
2 consecutive days

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Introduction

This is a comprehensive training for those who work in multi-disciplinary projects, where a strong dependency exists on information transformation from stakeholders to developers, implementers, integrators, testers, and maintenance responsibility. In the training a method is presented that ensures both the quality of requirements as well as a systematic way of translating information from one abstraction level to another without losing information in the translation process.

A handful of trends in the field of system requirements engineering, by trainer Cees Michielsen:

- Trend 1: Getting your system requirements complete
- Trend 2: Good quality requirements
- Trend 3: Traceability
- Trend 4: The W model
- Trend 5: Tooling

This training is available for open enrollment as well as for in-company sessions. For in-company sessions, the System requirements engineering training can be adapted to your situation and specific needs. A half-day SRE awareness training is also availble.

Target audience

This course is intended for:

- Requirements engineers, business analysts, systems engineers, system architects, marketing professionals, project managers, quality assurance professionals.
- Practitioners who have a need or a desire to improve their requirements engineering process.
- For organizations that develop products and need to cope with different levels of abstraction to fulfil the requirements of stakeholders.
- For anyone who wishes to improve their understanding of the dyanamics of requirements engineering as part of product

Practical information

Location
Multiple locations

Duration
2 consecutive days

Frequency
Twice per year

Price
€1,515.00 excl. VAT.

Included
Digital course files
Lunch buffet
Course binder
Energy break

Certification
HTI Certificate
Microcredentials
PDUs INCOSE

Delivery
Open enrollment (for individual participation)
In-company (for a group of employees)

Your trainer

Cees Michielsen

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development.

Prerequisite: an open mind for innovative methods to manage and engineer requirements.

Objective

The training aims to:

- Define the context and pre-conditions for specifying good requirements;
- Improve the requirement specification skills of the participants;
- Define steps to establish a well-defined requirements engineering process, leading to effectively writing good quality requirements;
- Give insight into how a product can be structured according to the complexity and dependencies as a result of decisions taken;
- Enable the trainees to implement transparency and traceability for their specifications.

Method

Presentations, lecture-type parts, workshop-parts and exercises.

Program

The training focuses on three dimensions:

1. The product dimension

- Describing the relevant abstraction levels of information that specify the product and their dependencies;
- Identification and specification of the product's architecture, systems, subsystems, disciplines, components and parts;
- Specification of the product architecture element requirements and design decisions, including their dependencies.

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2. The process dimension

- With process steps, typical for each sector;
- Product development cycles (life cycle processes);
- Relationship between the process and the product dimension.

3. The people dimension

- Describing the skills and competencies of people directly or indirectly involved in the Requirements Engineering processes;
- The relationship between all three dimensions.

The 'Requirements engineering' training lays the foundation for consistent, transparent, traceable and verifiable requirements. A pre-requisite to develop large complex products in a multi-discipline environment. The examples and workshop parts will be tailored to fit the needs of the participants.

What participants say

"Learned to follow the correct steps to create complete (as possible) requirements."

Erwin Westerbeek – NXP Semiconductors

"Good and interesting training. Lecturer has a lot of knowledge about the topic, which is very helpful during discussions."

J. Dekkers – Bosch Rexroth

"Learned a good structured way of defining requirements."

Paul Claessens – Sioux Embedded Systems

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Ready to register?

Reserve your seat via our website or make a provisional reservation to hold your place while you finalize your plans.

Have questions?

We are happy to help you find the right course. Reach us at training@hightechinstitute.nl or call us at +31 85 401 3600.

About High Tech Institute

For more than 15 years, High Tech Institute has been helping engineers and tech professionals develop the skills needed to succeed in the high-tech industry. Through expert-led training programs, in-company courses, and industry events, we combine deep technical expertise with practical application.