

Systems Engineering Masterclass

Turn Complexity into Robust, Successful Systems

Get a grip on complexity

Complex systems rarely fail because engineers lack technical expertise. The real challenges often arise at the interfaces — between disciplines, requirements, architecture, stakeholders and decisions. As systems become more interconnected and development cycles accelerate, keeping the bigger picture in sight becomes increasingly difficult. How do you make the right technical decisions early? How do you balance performance, reliability, risk and business value? And how do you align specialists and stakeholders around one robust system solution?

The **Systems Engineering Masterclass** gives you the methods, tools and leadership skills to turn complexity into structure — and structure into successful systems.



From technical expertise to system-level impact

Strong Systems Engineering is more than applying individual tools and methods. It is about understanding how everything connects.

During this masterclass, you'll strengthen your Systems Engineering foundation while exploring how proven principles connect with developments such as Model-Based Systems Engineering, digital twins, AI, resilience and sustainability.

You'll learn how to look beyond individual components and make better decisions at system level — combining technical depth with a clear understanding of customer needs, risks, stakeholders and business value.

What will you be able to do?

After this masterclass, you'll be better equipped to:

- **Structure complex development challenges** using systems thinking and architecting
- **Translate customer needs into clear requirements** and robust system solutions
- **Make better-informed technical decisions** using quantitative methods

- **Identify risks earlier** and integrate reliability and compliance into system design
- **Connect disciplines and stakeholders** around a shared system perspective
- **Apply modern Systems Engineering approaches**, including MBSE and digital twins
- **Balance technical performance with business value**
- **Lead multidisciplinary development** with greater confidence and impact

Built for real-world engineering

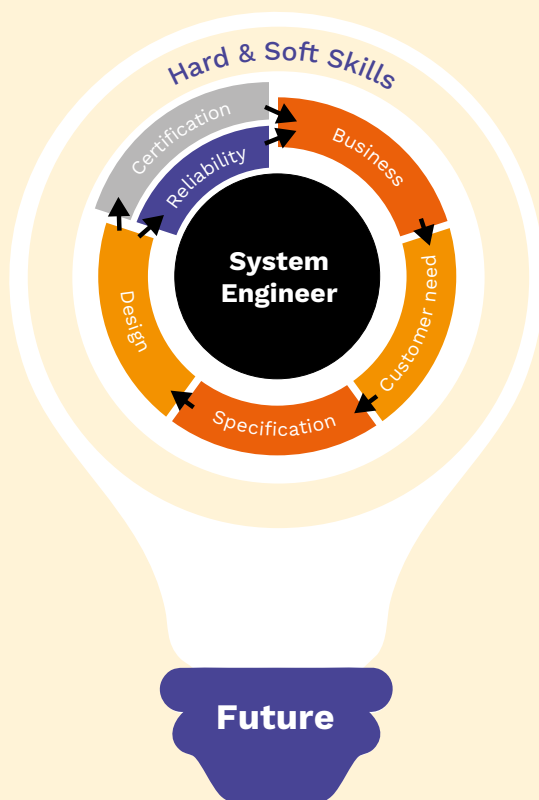
This is not Systems Engineering in theory alone.

Throughout the program, we connect methods and principles to real development challenges. You'll work with practical approaches and cases that help you translate what you learn directly into your own projects and organization.

The masterclass combines **five intensive training days with a follow-up session**.

This gives you the opportunity to put your learning into practice, reflect on the results and exchange experiences with fellow professionals.

“The real challenges often arise at the interfaces.”



Course information

Course duration and number of participants

5 days, from 9.00 to 18.00 + follow-up session.

Maximum group size: 12.

The Systems Engineering Masterclass can be offered as an in-company training.

Location and investment

Holland Innovative, High Tech Campus 29, Eindhoven and Holland Innovative, The Gallery, University of Twente. For the investment per participant visit our website. Included are comprehensive course materials, tools, lunches and refreshments.

Dates, registration and more information

See www.holland-innovative.nl under Academy.

Contact

Team HI Academy,
tel. +31 40 85 14 610,
academy@holland-innovative.nl



The impact

More grip on complexity.

See dependencies, interfaces and risks earlier.

Better decisions.

Make informed trade-offs based on requirements, performance, reliability and value.

Stronger collaboration.

Create a shared system perspective across disciplines and stakeholders.

More robust systems.

Turn Systems Engineering principles into better development outcomes.

Who is it for?

The Systems Engineering Masterclass is designed for professionals working on complex products and systems, including **Systems Engineers, Project Managers, Product Developers, Quality Managers, Technical Leaders and Consultants.**

It is particularly valuable if your role requires you to look beyond your own discipline, connect technical and organizational perspectives, and make decisions that affect the performance of the system as a whole.

Ready to strengthen your Systems Engineering impact?

Build the perspective, methods and leadership skills to turn complex development challenges into robust, successful systems.



Office HQ Eindhoven

High Tech Campus 29
5656 AE Eindhoven (NL)

Post office box 7060
5605 JB Eindhoven

Office Enschede

Hengelosestraat 500
7521 AN Enschede (NL)

Post office box 545
7500 AM Enschede

+31 (0)40 851 4610

holland-innovative.nl