

One Day Workshop Reliability

In order to take advantage of the latest economic developments, organisations need to develop new products and systems with a high reliability. Product failure could have a major impact and could lead to serious consequences. Reliability Engineering is an emerging discipline within product development, helping to secure the reliability of the product in an integrated way, with accurate and quantitative methods.

**Reliability;
The key to a successful product!**

Register: www.holland-innovative.nl

Training objective and result

The One Day Workshop Reliability consists of an introduction to the reliability engineering tools and methods such as Weibull and lognormal distribution, risk analysis, predicting failures, drawing up test plans and measuring reliability growth. Alongside acquiring insight into the methodologies, their integration into a development trajectory is the pivot of the workshop.

Course duration and number of participants 1 Day from 9.00 to 17.30. Maximum group size: 12 participants.

Instructor Ing. Ronald Schop, Sr. Director Reliability.

Location and investment Holland Innovative, High Tech Campus 29, Eindhoven. The investment is € 495 per participant (excluding VAT). This includes the day's training, extensive teaching materials, useful Excel tools, lunch and refreshments.

Dates, registration and more info See www.holland-innovative.nl under Academy.

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A selection of the skills which will be learned

- Reliability Engineering in the product creation process. Tools, Methodologies and the anticipated results.
- The principles of Weibull statistics, creating and interpreting Weibull plots. Examples of Weibull analyses.
- Good and bad Weibull plots, the 3-parameter Weibull and the lognormal distribution.
- Predicting failures, performing risk analyses.
- How to deal with smaller numbers; Weibayes methodology. Setting up a test plan.
- Crow-AMSAA reliability growth analysis, trend analysis.
- Management aspects. Change management; strategy, implementation, monitoring, training.

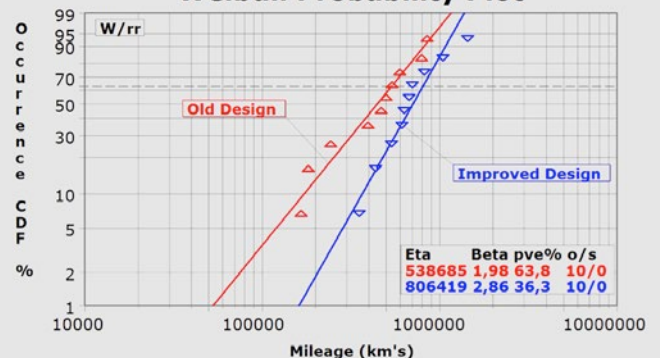
Integration with the Product Creation Process

The workshop offers you insight into the integration of reliability engineering into the product development trajectory. The specification of requirements, drawing up a risk analysis, evaluating test results at the component and system level, predicting life cycle costs and maintenance strategy; in short Reliability-Maintenance-Safety (RMS) in all its aspects.

In-Company

Holland Innovative also offers the One Day Workshop Reliability as an in-company workshop. The workshop can be tailored entirely to order.

Weibull Probability Plot





Target group

The One Day Workshop Reliability is a professional, intensive one-day workshop intended for senior management and engineers working in R&D, test departments or project management who will supervise or carry out the reliability programme within a company.

Teacher

The teacher for this workshop is Ronald Schop, Sr. Director Reliability at Holland Innovative.

Level

Academic or college level, or a similar level of knowledge acquired through experience.

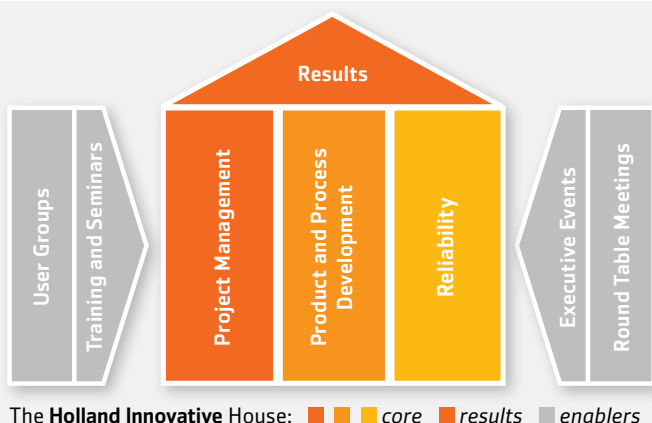
Requirements

During the workshop participants will need a laptop with Microsoft Excel.

Programme:

- Principles and terminology
- Reliability Engineering in the product creation process. Tools, methodologies and results.
- The Weibull distribution. Creating a Weibull plot (hands-on). Interpreting the plot; beta value, good and bad plots, the 3-parameter Weibull and the lognormal distribution (hands-on).
- Predicting failures and carrying out risk analyses. Is the failure tempo rising, constant or in fact declining? What will my spares turnover be? Is there an optimum replacement moment?
- How to deal with smaller numbers? Weibayes, setting up a test plan. Must everything be tested to the end of its lifespan? What are the alternatives?
- Crow-AMSAA reliability growth analysis. Trend analysis of guarantee dates, your machinery, production process. Accurate and timely programme decisions; measure the effects.
- Management aspects. Mentality, strategy, implementation, monitoring, training. Your role in implementing RMS Engineering in your firm's strategy.

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Holland Innovative BV:

- For solutions in project management, product & process development and improvement, and reliability
- 40 professionals with an experience level of more than 20 years
- Market areas: HighTech, Automotive, Solar & Energy, MedTech, Agro & Food

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Focus on complex business processes