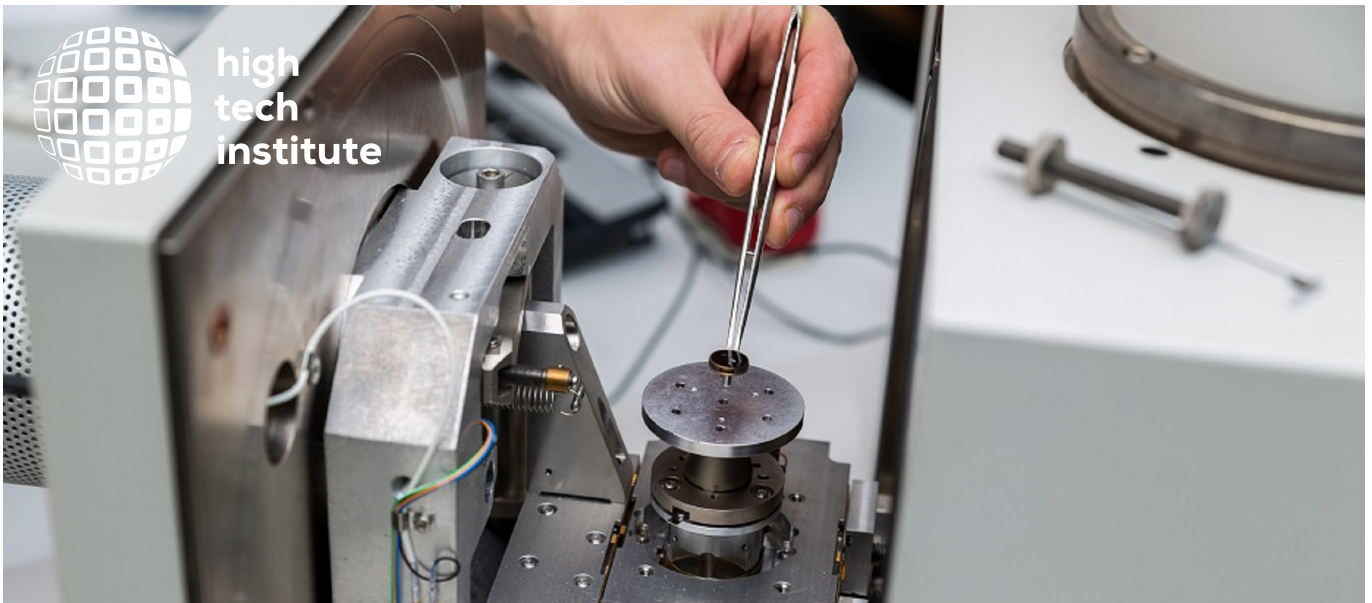


TRAINING BROCHURE

Experimental techniques in mechatronics training



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Experimental techniques in mechatronics

Price: € 2,365 excl. VAT *

Duration: 3 consecutive days

Contact: training@hightechinstitute.nl, +31 85 401 3600

Score: 9.5 ★★★★★☆

Intro

Hands-on course into experimental techniques to determine dynamic properties of mechatronic systems in a reliable way. Participants will acquire a mix of theoretical background, do's and don'ts and practical hands-on experience.

Objective

After the course, the participant will be able to select the correct measurement method and instrumentation, perform reliable and correct measurement of the dynamic behavior of precision mechatronic devices and assess and present the results in a meaningful way.

Intended for

This course is intended for design engineers, test engineers, production qualification engineers, customer support engineers and trouble shooters who use dynamic frequency domain techniques to evaluate the behavior of precision mechatronic devices.

Prerequisites: Technical education (BSc or higher), with at least two years experience and completion of the courses Mechatronics system design (Metron1/2) or equivalent.

Program

The program consists of the following topics:

- Continuous and discrete time signals;
- Time vs. frequency, signal types and units;
- Fourier transformation;
- Frequency Response Function (FRF), auto spectra, cross spectra, coherence;
- Sampling, leakage, aliasing, picket fence;
- Time windowing and weighting function;
- Excitation techniques;
- Sensors and calibration;
- Hands-on experiments.

Trainers

Dr. Bert Roozen
Dr. Pieter Nuij
Dr. Adrian Rankers

Certified by



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

[Dr. Adrian Rankers](#)

Trainers

[Dr. Bert Roozen](#)
[Dr. Pieter Nuij](#)
[Dr. Adrian Rankers](#)

** Prices are subject to change. Price correction will be applied at the end of the year.*

Keep me posted



Read the interview:



Remarks from participants:

- "Most important items I have learned: How to perform a good measurement and transfer." > Maarten Desnijder , Philips
- "Very happy I joined, should have done so earlier! Nice small groups and impressive professional guidance." > Jimmy van Schoubroeck - ASML
- "Very nice training that in my case perfectly fits my needs." > Rob van Gils , Philips
- "Well prepared. Impressive teaching material." > Chien ,Wei Lee - ASML