

casim consulting GbR

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Live-Online Seminar

Geometrical Dimensioning & Tolerancing r design, manufacturing and quality with certificate **TOPICS** Understanding geometric tolerances Definition of functional, production and proofcompliant datum systems Avoid ambiguities and Live-Online means uncertainties Creation of internationally 4 Units in sequence understandable product 1 unit per day specifications based on ISO 2,5 hrs. per unit standards Desk sharing Lessons Organizer: Interaction to trainer

Geometrical Dimensioning & Tolerancing for design, manufacturing and quality

General information

Standard-compliant, complete and unambiguous drawings have been the goal of every developer and designer since the introduction of Geometric Product Specifications (GPS). As the relevant standards have changed considerably in recent years, it is often no longer possible to fall back on analogies from the past.

The seminar is aimed at all employees from development and design, production and quality departments who want and need to apply the new standards and understand the relationships between drawing creation, parts production and quality assurance.

Using practical case studies presented by experienced engineers, the most recent findings will be transferred to the participants so that they can apply them in their daily work. This seminar will give you more confidence in applying the latest geometric product specification standards.

No previuos knowledges are required to benefit from this seminar.



Dipl.-Ing. Ina Mildner

Dipl.-Ing. Ina Mildner studied mechanical engineering the at University of Kassel, where subsequently worked as a research assistant at the Institute of Materials Science. Ms. Mildner has been working at casim Ingenieurleistungen since 2000, where she manages extensive tolerance management projects for customers from a wide range of industries.

Her technical expertise is complemented by her work as a coach in the field of Geometric Product Specification (GPS).



Contact

Questions about the seminar, technical issues or individual content for your seminar?

Your contact person: Mr. Dietmar Arndt +49 (561) 8 79 97 -0 | mailks@casim.de

Geometrical Dimensioning & Tolerancing for design, manufacturing and quality

- Monday Thursday
- Daily: 09.00 11.30 a.m.



Content (overview)

■ Generals of geometrical tolerancing

- Technical drawings

 designers language
- What the meaning of GPS?
- Basics of tolerancing

■ DIN EN ISO 8015

▲ Geometrical tolerances

- Datum systems DIN EN ISO 5459
- Datum systems Best fit
- Tolerance zones

DIN EN ISO 1101

- Tolerances of form, orientation, location and run-out and their symbols
- Modifiers for parameters

Principles of tolerancing

- Envelope principle
- Principle of independence accord. DIN EN ISO 8015
- DIN EN ISO 14405-1 Linear sizes
- DIN EN ISO 14405-3 Angular sizes
- DIN EN ISO 10 579 Tolerancing of non-rigid parts

■ DIN EN ISO 22081 (DIN 2769)

- General specifications of geometrical features, linear and angular sizes
- Interactions with DIN ISO 2768

■ DIN EN ISO 2692

- Maximum-Material-Conditions
- Approach for (geometrical) dimensioning and tolerancing
 Guideline
- GPS launch in the company Recommendations



Target group

Technicians, developers, designers, employees from the production, testing and quality departments as well as employees for in-company training.

Goals

- Be able to apply standards appropriately
- Be able to create drawings
- Read and understand drawings
- Recognize the connection between drawing creation and measurement technology