

# SEMINARS



## ***GD & T for design, measurement technology and production***

- Tolerance interpretation taking functions and processes into account
- Origins of deviation of form and position
- Tolerancing principles
  - Dimension and tolerance terms
  - Dimension tolerance systems
  - Loose, snug and tight fit according to DIN ISO 286 T1
- Elementary laws of tolerancing
  - Envelope requirement DIN 7167
  - Independency principle DIN ISO 8015
- Form and positional tolerance according to DIN ISO 1101
  - Tolerance types and their respective designations
  - Form and positional tolerance symbols
  - Tolerance zones
  - Minimum requirement
  - References and reference frames according to DIN ISO 5459
    - Creation of references
- General tolerances according to ISO 2768 T1/T2
  - General tolerances for dimensions of length and angle
  - General tolerances for dimensions of form and location
- Maximum Material Condition according to DIN ISO 2692
- Minimum Material Condition
- Standard: ASME Y 14.5M-1994
  - Differences from DIN ISO 1101

## ***Methods***

Manuscripts containing theory, real-life case studies, sample calculation exercises, discussion.

## ***Target Group***

Engineers, technicians, employees from the areas of testing and quality assurance, specialists in mechanical engineering and from the automotive and aerospace industries and their associated fields.

## ***General information***

- Duration: 2 days
- Location:
  - In-house (on your premises, date by prior arrangement)
  - casim locations Kassel and Ingolstadt (regular dates)
- Training documents/manuscripts are provided.
- Optional: Integration of company-specific content and issues.

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