

Shafts and Bearings

This seminar has a main focus on shafts and bearings. eAssistant and TBK 2014 are used to illustrate terms and principles. General settings, configuration and calculation options are discussed. This course is packed with many practical examples. No special prior knowledge is required.

This course is for young professionals, experienced engineers, designers as well as technicians.

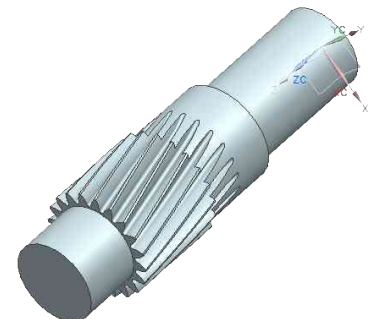
Main Topics

1. Shafts

- Material selection
- Approximate shaft dimensioning
- Deflection, forces, moments and stresses
- Bearing forces
- Shaft strength
- Notch effects
- Critical speeds (torsion and bending)
- ...

2. Bearings

- Bearing types
- Bearing clearance, bearing play
- Inner reaction forces
- Rolling bearing life: Calculation of basic and modified rating life according to DIN ISO 281, calculation of basic and modified reference rating life according to DIN 26281 (ISO/TS 16281)
- Lubrication
- ...



The seminar includes practical exercises with eAssistant or TBK 2014. Individual questions are allowed and welcomed during the workshop (depending on time).

