



Training Description

Condition monitoring systems for condition-oriented maintenance

Condition Monitoring is the systematic approach to keep your machines, units and supplies in excellent condition. The approach includes measurement, interpretation and visualization of defined parameters that are then forwarded to the IPS (maintenance planning software). The maintenance intervals can be planned reliably and undesired downtimes can be prevented. The vibration sensor DUV (Diagnostic Unit Vibration) monitors anti-friction bearings, gearings and unbalances in a simple and reliable way. The DUV measures the structure-borne noise and uses this value to calculate the frequency spectrum. The sensor and evaluation unit are fully integrated in the diagnostic unit. The oil aging sensor DUO (Diagnostic Unit Oil Aging) determines the remaining service life of the gear unit oil and reliably indicates when an oil change becomes necessary. The DUB (Diagnostic Unit Brake) is used to monitor the function and wear of the brake. It helps improve maintenance interval timing.

Target group: Maintenance, startup and repair staff; construction engineers, project planners

Seminar objectives: **The participants know the benefits of condition-oriented maintenance.**

They know how to:

- Startup the DUV10A vibration sensor
- Use the parameter setting software for evaluation
- Interpret the displayed values
- Startup the DUO10A oil aging sensor
- Startup the DUB for function and wear monitoring

Contents:

- Technical data, unit design and connections of the DUV vibration sensor, the DUO oil aging sensor and the DUB brake monitoring unit
- Operation and parameter setting using the parameterization software
- Interpretation of the damage progress
- Diagnosis of the bearing condition
- Determination of the remaining service life
- Startup the DUV10A vibration sensor
- Startup the DUO10A oil aging sensor
- Startup the DUB for function and wear monitoring
- Practical exercises using training models

Requirements: Drive technology knowledge

Methods: Educational dialogs, practical exercises

Location: SEW

Duration: 1 day

Max. participants: 6