

NEACADEMY



Seminar Servicing and Maintenance of Reciprocating Compressors

- theoretical and practical

Target group:

Engineers, Technicians, Foremen and Fitters from maintenance and production areas whose jobs include overseeing, repairing and ensuring the smooth running of reciprocating compressors.

Training objectives:

Participants will learn about the function and operation of reciprocating compressors and their accessories and, from the context of malfunctions and faults, they should be able to derive preventive measures to minimise downtimes and costs.

Topics:

Function and operation of the reciprocating compressor

- Construction of the compressor with its individual components; bearings, crankshaft, piston rod seals, cylinders, valves
- Control modes

Functions of the main components

- Advantages and disadvantages of the various designs of coolers, collectors, tanks and cylinder lubricators

Servicing the compressor

- Periodic inspections of the compressor units, preventative and status-oriented maintenance, maintenance intervals
- Assessment and evaluation of wearing parts, determining useful life, optimising service life

Assessment, cause-analysis of malfunctions and faults

- Typical examples that lead to malfunctions and stoppages
- Procedure of cause-analysis

Influence of vibrations upon the functioning

- Possible causes of vibrations, consequential damage

Diagnosis on reciprocating compressors

- On-Site-Diagnosis: Presentation of possibilities
- Telemonitoring: Systems to monitor the compressor

Revamping and modernisation of reciprocating compressors

- Project examples for different reciprocating brands

Job safety around the compressor

- Safe working practices on the compressor
- ATEX





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Topics of practical part:

Based on the theory are mediated basics different practical exercises on exercise compressors and components performed as for example:

- Measurement of bearing clearances and of web deflection
- Change of package inner parts and valves
- Crosshead - piston rod connection

Conclusion of the seminar:

Visit to the manufacturing site NEUMAN & ESSER, Übach-Palenberg

Location of the seminar:

NEACADEMY ▪ NEAC Training Center, Übach-Palenberg (near Aachen)

Costs of theoretical 2-day-seminar:

995,- € plus VAT per participant (*min. 4 participants, max. 12 participants*) includes one night's accommodation in a single room in a medium-grade hotel, seminar notes, meals and drinks during the day.

Additional practical day:

Afterwards the theoretical 2-day-seminar we offer on the following day an additional practical day. Based on the theoretical basics we will carry out different practical exercises like measuring of bearing clearance or exchange of packing internals.

Costs of additional practical day:

400,- € plus VAT per participant (*min. 4 participants, max. 12 participants*) includes one night's accommodation in a single room in a medium-grade hotel, meals and drinks over the day.

Dates:

The current seminar dates can be found on our website www.neac.de or on demand by e-mail or telephone.

Remarks:

We are glad to prepare your individual training program - also special for your individual compressor unit.
Please send us your request by e-mail or fax.



NEAC Compressor Service GmbH & Co. KG

Werkstrasse ▪ 52531 Übach-Palenberg, Germany ▪ Phone.: +49(0)24 51 -481 -03 ▪ Fax: +49(0)24 51 -481 -300
E-mail: info@neac.de ▪ Website: www.neac.de

Authorized OEM
supplier for reciprocating
compressor lines:

