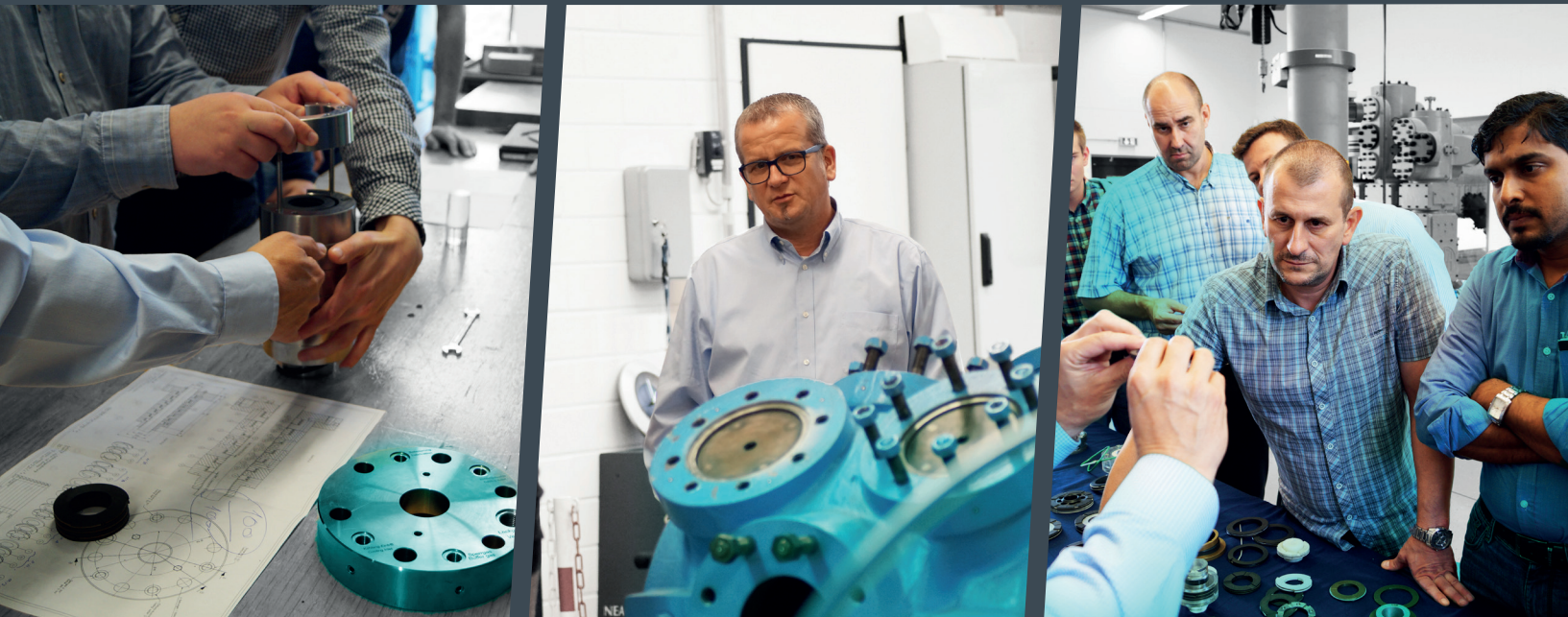




# NEACADEMY Seminar Servicing & Maintenance of Reciprocating Compressors



## 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 recip brands

### *Job safety around the compressor*

- Safe working practices on the compressor
- ATEX

# NEA NEUMAN & ESSER

Authorized OEM supplier for reciprocating compressor lines:



## 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:

NEA ICADEMY • NEAC Training Center, Übach-Palenberg (near Aachen)

## Costs of seminar:

*(min. 5 participants, max. 8 participants)*

The actual seminar fee you can ask for via e-mail or telephone.

The actual seminar fee includes two nights accommodation in a single room in a medium-grade hotel, seminar notes, meals and drinks during the day.

## Dates:

The current seminar dates can be found on our website [www.neuman-esser.com](http://www.neuman-esser.com)

## 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.

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