

CHEMICAL

OIL & GAS

REFRIGERATION

POWER GENERATION

SERVICE



Workshops 2012 HERMETIC-Pumpen GmbH

With these workshops we provide you a great opportunity to qualify your staff and consequently to guarantee the safety of your plant.

Workshop S 11

Explosion protection of canned motor pumps

Date: 26.04.2012 or 04.10.2012
 Participants: min. 5 persons / max. 10 persons
 Duration: 1 day (9:00-12:00 / 13:30-16:00)
 Charges: 350 € per person plus VAT
 (overnight expenses not included)

Topic

- General details of explosion protection
- Various types of explosion protection of canned motor pumps
- Explosion protection acc. to ATEX (Dir. 94/9/EC)
- Repair work of explosion-proof components

Workshop S 21

The installed canned motor pump

Date: 10.05.2012 or 11.10.2012
 Participants: min. 5 persons / max. 10 persons
 Duration: 1 day (9:00-12:00 / 13:30-16:00)
 Charges: 350 € per person plus VAT
 (overnight expenses not included)

Topic

- Design of canned motor pumps
- Operating range of canned motor pumps
- Type examples
- Operating details of canned motor pumps:
 - plant performance curve
 - adjustment of centrifugal pumps
 - NPSH and cavitation
 - monitoring of canned motor pumps
 - early warning of malfunction
- Explosion protection acc. to ATEX (Dir. 94/9/EC)

Workshop S 31

Maintenance of canned motor pumps

Date: 24.-25.04.2012 or 09.-10.10.2012
 Participants: min. 5 persons / max. 10 persons
 Duration: 2 days (9:00-12:00 / 13:30-16:00 each)
 Charges: 700 € per person plus VAT
 (overnight expenses not included)

Topic

- Construction details of canned motor pumps
- Dismantling and installation of canned motor pumps
- Repair of canned motor pumps
- Check of components, tolerances and dimensions
- Electrical and hydraulic tests of canned motor pumps
- Theory of axial thrust test
- Monitoring devices for canned motor pumps and the respective adjustment
- Failure causes of canned motor pumps

Workshop S 41

The canned motor pump in the refrigeration industry

Date: 12.04.2012 or 20.09.2012
 Participants: min. 5 persons / max. 10 persons
 Duration: 1 day (9:00-12:00 / 13:30-16:00)
 Charges: 350 € per person plus VAT
 (overnight expenses not included)

Topic

- Design of canned motor pumps
- Examples of different pump types
- Protection of canned motor pumps
- Installation and start-up
- Energy efficiency in refrigeration plants

All workshops including final examination and certificate.

Workshops regarding design and maintenance of canned motor pumps on demand.

Workshop S 51

Explosion protection of liquid ring vacuum pumps

Date: 24.05.2012 or 15.11.2012
 Participants: min. 5 persons / max. 10 persons
 Duration: 1 day (9:00-12:00 / 13:30-16:00)
 Charges: 350 € per person plus VAT
 (overnight expenses not included)

Topic

- General details of explosion protection
- Explosion protection acc. to ATEX (Dir. 94/9/EC)
- Requirements for different groups of devices
- Characteristics for operation in zone 0 (i)

Workshop S 61

The installed positive displacement pump

Date: 14.06.2012 or 27.11.2012
 Participants: min. 5 persons / max. 10 persons
 Duration: 1 day (9:00-12:00 / 13:30-16:00)
 Charges: 350 € per person plus VAT
 (overnight expenses not included)

Topic

- Design of positive displacement pumps
- Field of application of positive displacement pumps
- Explanation on operation of positive displacement pumps:
 - Control and protection of positive displacement pumps
 - Monitoring
- Explosion protection acc. to ATEX (Dir. 94/9/EC)
- Shaft seal acc. to "TA-Luft"

Workshop S 71

Maintenance of liquid ring vacuum pumps

Date: 12.-13.06.2012 or 20.-21.11.2012
 Participants: min. 5 persons / max. 10 persons
 Duration: 2 days (9:00-12:00 / 13:30-16:00 each)
 Charges: 700 € per person plus VAT
 (overnight expenses not included)

Topic

- Construction details of liquid ring vacuum pumps
- Dismantling and installation of liquid ring vacuum pumps
- Examination of components; tolerances and clearances
- Hydraulic tests on liquid ring vacuum pumps
- Monitoring devices for liquid ring vacuum pumps
- Failure causes of liquid ring vacuum pumps

Workshop S 81

Maintenance of positive displacement pumps

Date: 29.-30.05.2012 or 06.-07.11.2012
 Participants: min. 5 persons / max. 10 persons
 Duration: 2 days (9:00-12:00 / 13:30-16:00 each)
 Charges: 700 € per person plus VAT
 (overnight expenses not included)

Topic

- Construction details of positive displacement pumps
- Dismantling and installation of positive displacement pumps
- Examination of components; tolerances and clearances
- Hydraulic tests of positive displacement pumps
- Monitoring devices for positive displacement pumps
- Failure causes of positive displacement pumps

All workshops including final examination and certificate.

Individual workshops on design and maintenance of positive displacement pumps on demand.

We draw your attention to the fact that the workshop registration must be sent to us not later than 3 weeks before the required workshop starts. Please be informed that we cannot consider any registration after this date. We ask for your understanding.

Sender

Mr. / Mrs. (contact) _____

Company _____

Street _____

Postal code / City _____

Phone _____

Fax _____

E-mail _____

Invoice address
(if not in accordance with above mentioned address)

Date (please state) _____

Workshop (please mark) S 11 S 21 S 31 S 41
 S 51 S 61 S 71 S 81

List of participants 1 _____ 2 _____

3 _____ 4 _____

5 _____ 6 _____

7 _____ 8 _____

9 _____ 10 _____

Suggestions
(any required topics regarding workshop or training)

I still have some questions regarding topics,
organisation or course of workshops and would
therefore be pleased if you could contact me. _____

