

innomatec Academy

In our academy, you will learn everything about the topic of "Tightness testing in industrial applications". Our program consists of both theoretical and practical units and is ideally suited for all who are faced with the issue of leak tightness in the areas of quality assurance, planning of production processes and production.

In our academy, you have the opportunity to learn the basics of leak testing in **small groups of 4 - 8 people**, as well as to get an overview of the common measuring methods for different areas of application. In the practical part, we also offer the possibility that you can deal with specific calculations and tests on the leak testing devices.

You are welcome to bring your sample parts, sketches, test tasks or design drawings to our seminars. These are always welcome in our hands-on exercises. Please note, however, that the sealing device for complex components must also be brought by you. Please contact us at any time.

By far the best continuing education

Under this motto, we are now starting our face-to-face academy again, in compliance with our strict hygiene concept. However, the number of seats is still limited. So it still pays to be quick. We look forward to welcoming you in person soon!

Below you will find our current available dates:

| | | |
|--------------------------|------------|----------------------|
| Basic seminar | 15.02.2022 | 8:30 – 16:30 o'clock |
| Practice seminar | 16.02.2022 | 8:30 – 16:30 o'clock |
| Basic seminar | 10.05.2022 | 8:30 – 16:30 o'clock |
| Practice seminar | 11.05.2022 | 8:30 – 16:30 o'clock |
| Trace gas seminar | 12.05.2022 | 8:30 – 16:30 o'clock |
| Basic seminar | 20.09.2022 | 8:30 – 16:30 o'clock |
| Practice seminar | 21.09.2022 | 8:30 – 16:30 o'clock |
| Basic seminar | 08.11.2022 | 8:30 – 16:30 o'clock |
| Practice seminar | 09.11.2022 | 8:30 – 16:30 o'clock |
| Trace gas seminar | 10.11.2022 | 8:30 – 16:30 o'clock |

Participation in the practical seminar and the trace gas seminar requires practical basic knowledge of leak testing or participation in the basic seminar in our academy.

Individual seminars

We are pleased to adjust the content and focus of the seminars to your individual requirements in consultation with you. The minimum number of participants for our individual seminars is 4 people.

Adjustments due to COVID-19:

- The rules, regulations and recommendations of the respective federal state must be taken into account and implemented accordingly. There is a duty of care towards all participants.
- The 3G rule (only vaccinated, recovered or negatively tested persons) currently applies.

innomatec Akademie

Am Wörtzgarten 14, 65510 Idstein

Seminar program:

Day 1 Basic seminar: Different methods of leak testing

Seminar in our Conference room in Idstein

Seminar content:

- Pressure measurements and pressure difference measurement
- General conditions for a leak test with air
- Explanation of the different measuring methods with air
- Mass flow method
- Flow and back pressure test
- Manuel water bath test

Selection of the measuring method

- Summary of the individual measuring methods and their limits
- Definition of a leak rate
- Calculation of a leak rate
- Decision making for the appropriate test procedure

Quality assurance during the leak test

- Use of test leaks (fixed and adjustable)

Adaptation of components and important framework conditions in the creation of fixture construction

- Pressure tight in seconds: the ConneC system
- Criteria for fixture construction

Menu structure of the Leak-Test Computer

- Practical example on the LTC-602
- Extended functionality in comparison of the LTC-802 to LTC-602*

* Special practical seminars based on the LTC-802/902 series are available on request.

Day 2 Practical seminar: Use of test methods with air

Seminar in our Technikum in Idstein

Seminar content:

- Discussion of open questions from the first day
- Interfaces to the Leak-Test Computer in practical application
- Kompensationsmöglichkeiten Umgebungseinflüsse
- Messmittelfähigkeitsuntersuchungen

Practical exercises with Leak-Test Computer

- Determination of the correct test parameters
- Optimization of the test parameters

Day 3 Seminar: Trace gas analysis*

Seminar in our Technikum in Idstein

Trace gas test methods

- Sniffing with the help of a sniffer probe
- Accumulation method at atmospheric pressure
- Integral leak test
- Recovery of the test gas for cost savings

Choice of the test method

- Summary of the individual measuring methods and their limits
- Definition of a leak rate
- Calculation of a leak rate
- Influence of the gas concentration on the measurement result
- Decision making for the appropriate test procedure

Quality assurance during the leak test

- Calibration of the basic systems
- Use of test leaks (fixed and adjustable)

Practical seminar

- Influence of the parameters on a helium leak test
- Tests according to the accumulation procedure
- Tests according to the Integral Procedure
- Leaks in the water bath
- Localization of leaks by sniffing method

* A minimum of 3 participants is required for the seminar "Trace Gas Analysis"

Costs: 1-day Seminar: 750,-- Euro / Participant, plus VAT
2-days Seminar: 1.250,-- Euro / Participant, plus VAT
3-days Seminar: 1.750,-- Euro / Participant, plus VAT

The price includes: COVID-19 quick tests
Manual on USB stick
Lunch, snacks and drinks
Certificate of participation in the seminar

Up-to-date information:

- Due to the Corona pandemic, all seminar dates can currently only be booked under reserve and depending on the Corona regulations in effect at the time.
- In view of the current developments in the Covid-19 pandemic, innomatec GmbH reserves the right to change all seminars at short notice or to cancel them at short notice depending on the situation.

INVOICE ADRESSE:

| | | | |
|---------------------|--|------------------------|--|
| Company: | | Order number: | |
| Name/Surname | | Telefon number: | |
| Street: | | Fax number: | |
| ZIP/Place: | | E-Mail: | |

The order confirmation will be sent to the above e-mail address.

PLEASE FILL COMPLETELY:

| | |
|-----------------|--------------|
| Seminar: | Date: |
| | |
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The below terms and conditions for innomatec training apply

DATA OF THE PARTICIPANT:

| | | | |
|------------------------------------|------------------------------|-----------------------------|----------------|
| Name/Surname: | | Telephone number: | |
| Department: | | Fax number: | |
| Hotel suggestion requested: | Yes <input type="checkbox"/> | No <input type="checkbox"/> | E-Mail: |

_____ **Date:** _____ **Signature:**

1 REGISTRATION

- 1.1 We request your registration for our seminars in writing by post, telefax 06126-9420-40 or by e-mail to kontakt@innomatec.de. Unfortunately we cannot accept phone registrations. The applications will be considered in the order of their receipt. If a seminar is already booked for the desired date, you will be booked on the waiting list. An automatic rebooking to the next free date is not foreseen.
- 1.2 You will receive the registration confirmation after the order has been processed. From this you can see the start and end times of the seminar, the seminar price and possibly special information.
- 1.3 If you do not receive any notification from innomatec within one week, we ask you to contact our seminar department.

2 CANCELLATION

- 2.1 Cancellations must be sent in writing by post, fax or e-mail to us.
- 2.2 If your cancellation is received less than 14 calendar days before the beginning of the seminar, we charge 50% of the seminar fee.
- 2.3 Three working days before the start of the seminar and later we will charge you the full seminar fee.
- 2.4 The cancellation fees listed under point 2.2 and under point 2.3 also apply if the seminar is rebooked to a later date.
- 2.5 If, for organizational reasons, a seminar date has to be canceled by innomatec, claims exceeding the seminar fee cannot be asserted.

3 FEES

- 3.1 The fees mentioned in the seminar overview apply per participant. They include a complete set of seminar materials and the cost of lunch. All prices are exclusive of VAT. Payments are due 14 days after invoicing. Discount is not granted.
- 3.2 The specified seminar fees are subject to change.

4 DATA PROTECTION

- 4.1 innomatec stores and processes personal data of seminar participants within innomatec in accordance with the rules of the Data Protection Act.

5 COPYRIGHT

- 5.1 All rights, including translations, reproductions and reprints of seminar materials, even in extracts, are reserved to innomatec. No reproductions may be made without the written permission of innomatec.

6 APPLICATION OF THE REGULARIES

- 6.1 Only these regulations apply.
- 6.2 Other conditions do not become part of the contract, even if innomatec does not expressly oppose.

7 APPLICABLE LAW AND JURISDICTION

- 7.1 Germany: Jurisdiction in Germany for all disputes between the parties is Idstein. It is exclusively German law.