

End using sealing level 2 - Theory

REF. 1-412.

OBJECTIVES

- //. Mastery of seal checking techniques
- //. Drafting of instructions in compliance with specifications.
- //. Interpretation of control results and decision.

AUDIENCE

BEP / Technical GCSE level maintenance technicians and vacuum users.

PREREQUISITES

Basic knowledge of the behaviour of gases and an understanding of vacuums are recommended.

TEACHING RESOURCES

- //. Lectures, controlled practical exercises, demonstrations.
- //. Custom training manual, a true practical guide on the workstation.
- //. Prior interview of the trainees possible in order to qualify their needs.
- //. Multiple choice questions at the start and end of the training.

DURATION 10 days (80 hours)

DATES Contact us

LOCATION Grenoble (FR) possible on customer site

PRICE 3000 € ex. VAT / person. (Lunch included)

This END training module by level 2 sealing prepares candidates for the COFREND LT level 2 certification.

This theoretical course MUST be followed by the level 2 PRACTICAL (LT2 P) course for registration for the certification exam.

For levels 1 and 2 the COFREND LT test centre is in Bourg-de-Péage (26).

Under certain conditions, the training and exam can be partially paid for by your approved training contribution collection organisation as part of the continuing education programme.

TRAINING PLUSSES

Practical training on equipment equivalent to the customer's equipment.

PROGRAMME

The programme for this course is compliant with the recommendations of COFREND for certification training according to standard NF EN 473 and ISO 9712.

COURSES

1. Physics

- pressure
- flow rates
- conductance
- mean free path

2. Technology

- pumps
- manometers
- mass spectrometers
- platinum diodes
- electron capture detectors

3. Methodology

- bubble control
- pressure variation measurement
- acoustic listening
- halogen gases: Forane, SF6, R134A
- ammonia gases
- vacuum helium checking, sniffing, bombing

PRACTICAL EXERCISES

1. Helium method

- global
- spray
- sniffing
- bombing

2. Halogen methods

- direct sniffing
- accumulation sniffing

3. Ammonia method

4. Bubble method

- under vacuum
- under pressure

5. Pressure variation method

- under vacuum
- under pressure

CONTROLLED EXERCISES

- Collecting results and control reports
- Drafting operating modes
- Individual test (Multiple choice) with group correction

End using sealing level 2 - Practical

REF. 1-413.

OBJECTIVES

- // Knowledge of all sealing control techniques.
- // Implementation of the appliances
- // Perfecting the methods used

AUDIENCE

BEP / Technical GCSE level maintenance technicians and vacuum users.

PREREQUISITES

Basic knowledge of the behaviour of gases and an understanding of vacuums are recommended.

TEACHING RESOURCES

- // Lectures, controlled practical exercises, demonstrations.
- // Custom training manual, a true practical guide on the workstation.
- // Prior interview of the trainees possible in order to qualify their needs.
- // Multiple choice questions at the start and end of the training.

DURATION 5 days (40 hours)

DATES Contact us

LOCATION Grenoble (FR) possible on customer site

PRICE 1800 € ex. VAT / person. (Lunch included)

This END training module by level 2 sealing prepares candidates for the COFREND LT level 2 certification.

This course **MUST** be preceded by the level 2 THEORY (LT2) course for registration for the certification exam.

For levels 1 and 2 the COFREND LT test centre is in Bourg-de-Péage (26).

Under certain conditions, the training and exam can be partially paid for by your approved training contribution collection organisation as part of the continuing education programme.

TRAINING PLUSSES

Practical training on equipment equivalent to the customer's equipment.

PROGRAMME

The programme for this course is compliant with the recommendations of COFREND on training for certification according to standard NF EN 473 and ISO 9712

PROGRAMME - PRACTISE

GENERAL

- Principles of seal checking
- Parts to control, cleanliness, drying

TECHNOLOGY

- Removable junctions
- Different types of joints: cleaning, visual checking
- Joint housings: surface state, visual checking, cleaning and adjustment

PRACTICAL EXERCISES

1. Helium method

- Global
- Spray
- Sniffing
- Bombing

2. Halogen methods

- Direct sniffing
- Accumulation sniffing

3. Ammonia method

4. Bubble method

- Under vacuum
- Under pressure

5. Pressure variation method

- Under vacuum
- Under pressure

CONTROLLED EXERCISES

- Collecting results and control reports
- Drafting operating modes
- Individual test (Multiple choice) with group correction