

Awareness to the handling of SF₆ In accordance with Standards and Regulations

Ref. V0035E



Destinated for

Supervising staff or others wishing to familiarize themselves with the requirements of the regulations and standards.



Required knowledge

None



Method

Theory: 70% /Practice: 30%
Lectures, use of documents, photos & videos, theoretical scenarios. Practical demonstrations.



Duration

1 day



Number of participants

2 to 12 trainees



Place

Aix les Bains or on Site



Objectives

- List the regulatory obligations imposed on personnel handling SF₆ gas
- List the general characteristics of SF₆
- Apply good practices in handling SF₆ gas and associated equipment



Program

Generalities

Basic environmental Knowledge
European regulations and certification of personnel
Physical, chemical and environmental characteristics of SF₆
Use and dangers of SF₆

SF₆ management

Standards
SF₆ gas quality
Gas transportation and storage
Decomposition products and neutralization
Use of PPE
Monitoring of gas and data recording

Presentation of the equipment and devices for analysis and recovery

Practical demonstration by the trainer.
Analyse and recovery



Trainer

Experienced trainer with a strong field experience.



Evaluation

As part of our quality improvement policy, an evaluation sheet is submitted to trainees at the end of the training with the purpose of improving our programs through their comments.

SF₆ Gas regulation and certification

“Inexperienced staff (initial training)”

Ref. V0032E + V0039E



Destinated for

Technical team in charge of: Installation, maintenance, repair, or commissioning of equipment containing certain fluorinated greenhouse gases.
Greenhouse gases recovery and leaks checking.



Required knowledge

None



Method

Theory: 50% /Practice: 50%
Lectures, use of documents, photos & videos, theoretical scenarios. Practical demonstrations and practical exercises.



Duration

2 days + 1 day of exam



Number of participants

2 to 6 trainees



Place

Aix les Bains or on Site



Objectives

- List the general characteristics of SF₆
- Handle SF₆ gas safely while controlling its impact on the environment
- Use SF₆ recovery, control and measurement equipment
- Apply the rules imposed by the regulations, which will be assessed during the theoretical and practical test



Program

Generalities

Physical, chemical and environmental characteristics of SF₆
Use and dangers of SF₆

Gas control

SF₆ leak awareness
Gas leak detection
Gas analysis and interpretation of results
Use of PPE
Safety rules to use

Gas control

Opening a polluted compartment
Cleaning and recommissioning

SF₆ management

SF₆ gas quality
Gas transportation and storage
Decomposition products and neutralization
Use of PPE
Monitoring of gas and data recording

Filling and recovery

Recovery of SF₆
Filling and topping up of gas
Recovery of SF₆ with by-products



Trainer

Experienced trainer with a strong field experience.



Evaluation

As part of our quality improvement policy, an evaluation sheet is submitted to trainees at the end of the training with the purpose of improving our programs through their comments.

SF₆ Gas regulation and certification

“Experienced staff (refresher training)”

Ref. V0031E + V0039E



Destinated for

Technical team in charge of: Installation, maintenance, repair, or commissioning of equipment containing certain fluorinated greenhouse gases.
Greenhouse gases recovery and leaks checking.



Required knowledge

Have a valid certificate



Method

Theory: 50% /Practice: 50%
Lectures, use of documents, photos & videos, theoretical scenarios. Practical demonstrations and practical exercises.



Duration

1,5 days + 0,5 day of exam



Number of participants

2 to 6 trainees



Place

Aix les Bains or on Site



Objectives

- List the general characteristics of SF₆
- Handle SF₆ gas safely while controlling its impact on the environment
- Use SF₆ recovery, control and measurement equipment
- Apply the rules imposed by the regulations, which will be assessed during the theoretical and practical test



Program

Generalities

Physical, chemical and environmental characteristics of SF₆
Use and dangers of SF₆

Gas control

SF₆ leak awareness
Gas leak detection
Gas analysis and interpretation of results
Use of PPE
Safety rules to use

Gas control

Opening a polluted compartment
Cleaning and recommissioning

SF₆ management

SF₆ gas quality
Gas transportation and storage
Decomposition products and neutralization
Use of PPE
Monitoring of gas and data recording

Filling and recovery

Recovery of SF₆
Filling and topping up of gas
Recovery of SF₆ with by-products



Trainer

Experienced trainer with a strong field experience.



Evaluation

As part of our quality improvement policy, an evaluation sheet is submitted to trainees at the end of the training with the purpose of improving our programs through their comments.

g³ Gas fundamentals

Ref. V0051E



Destinated for

Managers, Engineers & technicians



Required knowledge

None



Method

Theory: 100%



Duration

0,5 day



Number of participants

10 trainees max



Place

Factory or on Site



Objectives

- Describe the physical and chemical characteristics of g³
- List the means used and the rules to be applied when handling the g³
- List the g³ safety rules



Program

Fundamentals of g³

Presentation of g³
Physical, chemical and environmental characteristics of g³
Evolution and goal for the future
The dangers

Gas management

g³ gas quality
Filling and recovery of g³
Gas transportation and storage
g³ Leak awareness
Decomposition products
Use of PPE
Safety rules to use



Trainer

Experienced trainer with a strong field experience.



Evaluation

As part of our quality improvement policy, an evaluation sheet is submitted to trainees at the end of the training with the purpose of improving our programs through their comments.

g^3 gas handling in liquid phase – Dilo

“Liquid To Gas”

Ref. V0052E



Destinated for

Technical team involved on g^3 gas handling with experience on gas handling



Required knowledge

None



Method

Theory: 25% /Practice: 75%
Lectures, use of documents, photos & videos, theoretical scenarios. Practical demonstrations and practical exercises.



Duration

2 days



Number of participants

2 to 6 trainees



Place

Aix les Bains or on Site



Objectives

- Describe the physical and chemical characteristics of g^3
- List the means used and the rules to be applied when handling the g^3
- Use the g^3 gas recovery, filling and measuring devices
- Apply g^3 safety rules



Program

Fundamentals of g^3

Presentation of g^3
Physical, chemical and environmental characteristics of g^3
Evolution and goal for the future
The dangers

Gas management

g^3 gas quality
Gas transportation and storage
Decomposition products
Use of PPE
Safety rules to use

Gas control

g^3 Leak awareness
Gas analysis and interpretation of results

Filling and recovery

Filling / topping up of g^3 in liquid phase to a gas phase compartment
Recovery of g^3 in gas phase to a bottle/container in liquid phase



Trainer

Experienced trainer with a strong field experience.



Evaluation

As part of our quality improvement policy, an evaluation sheet is submitted to trainees at the end of the training with the purpose of improving our programs through their comments.

G3 gas handling in gas phase – Dilo

“Gas To Gas”

Ref. V0052E AIS



Destinated for

Technical team involved on g³ gas handling with experience on gas handling



Required knowledge

None



Method

Theory: 25% /Practice: 75%
Lectures, use of documents, photos & videos, theoretical scenarios. Practical demonstrations and practical exercises.



Duration

2 days



Number of participants

2 to 6 trainees



Place

Aix les Bains or on Site



Objectives

- Describe the physical and chemical characteristics of g³
- List the means used and the rules to be applied when handling the g³
- Use the g³ gas recovery, filling and measuring devices
- Apply g³ safety rules



Program

Fundamentals of g³

Presentation of g³
Physical, chemical and environmental characteristics of g³
Evolution and goal for the future
The dangers

Gas management

g³ gas quality
Gas transportation and storage
Decomposition products
Use of PPE
Safety rules to use

Gas control

g³ Leak awareness
Gas analysis and interpretation of results

Filling and recovery

Filling / topping up of g³ in gas phase to a gas phase compartment
Recovery of g³ in gas phase to a bottle/container in gas phase



Trainer

Experienced trainer with a strong field experience.



Evaluation

As part of our quality improvement policy, an evaluation sheet is submitted to trainees at the end of the training with the purpose of improving our programs through their comments.
