

Set of three instructions (five consecutive days – Monday to Friday):

- **Operations Management** – 8 hours;
- **Operations with self-contained breathing apparatus (SCBA)** – 16 hours;
- **Advanced Course in compartment fire extinguishing (*Flashover*)** – 16 hours.

[intercompany / private]

Operations Management

General objectives

Provide trainees with technical and operational skills to enable them to command urban firefighting operations involving a maximum of six teams.

Specific objectives

- To know:
 - Describe the Incident Command System (ICS);
 - Identify the responsibilities of the incident commander (IC);
 - Recognize the procedures related to decision process;
 - Recognize intervention and safety procedures in urban fires.
- Know what to do:
 - Correctly analyze an intervention zone;
 - Correctly rate safety conditions in the development of each operation;
 - Define an action plan based on the assessment of the situation and the means available;
 - Communicate the action plan to the team leaders;
 - Effectively control the operational activity of team leaders;
 - Transmit with objectivity the status, through radio equipment ;
 - Prepare and foresaw the development of the incident;
 - Pass command of the operation according to established procedures.
- Learn how to act:
 - Communicate with assertiveness;
 - Adopt a responsible and safe attitude.

Recipients

Firefighters; Other professionals.

Prerequisites

Appropriate physical and psychic robustness, stated through the liability statement.

Trainees per instruction

Minimum of twelve (12) and maximum of sixteen (16) trainees per instruction.

Type of training

Certified training not included in the Portuguese National Qualifications Catalog - other professional training.

Form of organization of the training

Face-to-face, being mandatory 90% attendance.

Locations of training

In the facilities of the Portuguese National Fire Service School in Sintra.

Date and time of training

Date to be agreed with the client entity (one day).

Program content and workload

Program content	Workload			
	CT	PS	PCT	Total
Operations Management System	1h00			1h00
Simulated Practices		7h00		7h00
	1h00	7h00	- - -	8h00

CT: scientific-technological (theoretical);PS: simulated practice; PCT: practice in work context.

Training methodologies

Expositive method - the trainer develops orally the themes;

Interrogative method - formulation of questions in order to lead the trainee to find the desired results;

Demonstrative method - the trainer teaches to perform tasks, based on a demonstration;

Active method - execution of tasks and confrontation with simulated situations that demand the search for solutions.

Criteria and evaluation methodologies

The evaluation of the trainees is based on a continuous practical assessment.

Continuous practical assessment consists of observing the trainee in the performance of COS functions and will focus on the following parameters:

- Recognition;
- Immediate reactions;
- Action Plan;
- Situation point;
- Command pass.

For the training to be considered "Successful", the trainee must obtain at least an "Average" classification in each of the parameters of the continuous practical evaluation.

Human Resources

To be guaranteed by ENB:

Four instructors with specific professional qualification in the area.

Spaces and equipments to be guaranteed by ENB::

- Training room;
- Virtual Reality Simulation Center;
- Portable radios.

Trainees must have:

Identification Document (passport).

Certification

Once the action has been successfully completed, and after proper collection of the invoice (s), the respective certificates are issued.

General objectives

Provide trainees with technical and operational skills to enable them to safely and effectively use a self-contained breathing apparatus (SCBA) under the following norms: NFPA® 1001: Standard for Fire Fighter Professional Qualifications, NFPA® 1404 Standard for Fire Service Respiratory Protection Training e da UK National Occupational Standard SFJ CFF01 Respond to operational incidents requiring breathing apparatus.

Specific objectives

To know:

- Explain the respiratory process;
- Describe the composition of inhaled and exhaled air;
- Explain how the effort made affects air consumption;
- Describe how the Breathing Apparatus (BA) manages inhaled and exhaled air;
- Explain Breathing Apparatus (BA) capabilities and limitations;
- Explain the use of the Breathing Apparatus (BA) and BA Entry Control Officer mission;
- Recognize the different concepts of capacity and autonomy;
- Explain what and how to control the psychological effects associated with using Breathing Apparatus (BA);
- Describe the tests and verifications to be performed on Breathing Apparatus (BA);
- Explain how risk management relates to the application of Entry Control Officer.

Know what to do:

- Properly use, condition and store the Breathing Apparatus (BA);
- Properly verify and test the Breathing Apparatus (BA);
- Report and correctly record defects and problems encountered in Breathing Apparatus (BA);
- Equip, use, dismantle and prepare for reuse BA under established procedures;
- Register with the Entry Control Officer upon entering and leaving the hazardous area;
- Use appropriate progression and communication techniques as part of a team;
- Determine the point of no return and leave the hazardous area before the BA safety warning bell sounds;
- Communicate status to Entry Control Officer according to established procedures.

Learn how to act:

- Communicate with assertiveness;
- Adopt a responsible and safe attitude.

Recipients

Firefighters; Other professionals.

Prerequisites

Appropriate physical and psychic robustness, stated through the liability statement.

Trainees per instruction

Minimum of twelve (12) and maximum of sixteen (16) trainees per instruction.

Type of training

Certified training not included in the Portuguese National Qualifications Catalog - other professional training.

Form of organization of the training

Face-to-face, being mandatory 90% attendance.

Locations of training

In the facilities of the Portuguese National Fire Service School in Sintra.

Date and time of training

Date to be agreed with the client entity (two consecutive days).

Program content and workload

Program content	Workload			
	CT	PS	PCT	Total
Respiratory Anatomy and Physiology	1h00			1h00
SCBA - operation and use	1h00			1h00
Safety Procedures	1h00			1h00
Simulated Practices		12h00		12h00
Theoretical assessment	1h00			1h00
	4h00	12h00	---	16h00

CT: scientific-technological (theoretical);PS: simulated practice; PCT: practice in work context.

Training methodologies

Expositive method - the trainer develops orally the themes;

Interrogative method - formulation of questions in order to lead the trainee to find the desired results;

Demonstrative method - the trainer teaches to perform tasks, based on a demonstration;

Active method - execution of tasks and confrontation with simulated situations that demand the search for solutions.

Criteria and evaluation methodologies

The evaluation of the trainees is based on a summative assessment consisting of a theoretical assessment test and continuous practical assessment.

The theoretical evaluation consists of a test of 20 multiple choice questions, with a price of 1.0 value each. Continuous practical assessment consists of observing the trainee in the performance of duties as a member of an intervention team and will focus on the following parameters:

- Compliance with safety procedures;
- Compliance with operation procedures;
- Execution of all practical exercises proposed.

Each of the evaluations, theoretical and continuous practice, has an eliminatory character, and the student will have to repeat the course fail one of them.

For the training to be considered "Successful", the trainee must obtain, on a scale from 0 to 20:

- Classification equal to or greater than 10 in the theoretical evaluation test, on a scale from 0 to 20;
- The "Average" classification in each of the parameters of the continuous practical evaluation test.

Human Resources

To be guaranteed by ENB:

Four instructors with specific professional qualification according to NFPA norms.

Spaces and equipments to be guaranteed by ENB::

- Training room;
- Locker room;
- Urban and industrial firefighting Personal Protective Equipment – PPE, consisting of: Protective helmet; Protective hood; Protective coat; Protective pants; Protective gloves; Protective boots; Overalls;
- Self-contained breathing apparatus (SCBA);
- Urban and industrial fire training camp;
- Urban firefighting vehicle;
- Portable radios.

Trainees must have:

T-shirts (cotton); thick socks for boots use; a change of underwear; personal hygiene products; bath slippers;

Identification Document (passport).

Certification

Once the action has been successfully completed, and after proper collection of the invoice (s), the respective certificates are issued.

General objectives

Provide trainees with technical and operational skills to enable them to safely and effectively use a self-contained breathing apparatus (SCBA) under the following norms: NFPA® 1001: Standard for Fire Fighter Professional Qualifications, NFPA® 1404 Standard for Fire Service Respiratory Protection Training e da UK National Occupational Standard SFJ CFF01 Respond to operational incidents requiring breathing apparatus.

Specific objectives

■ To know:

- Describe the triangle and fire tetrahedron;
- Define pyrolysis, complete and incomplete combustion;
- Describe the flammability area concept;
- Explain the chemical process of combustion;
- Explain the methods and means of extinction;
- Describe the generalized combustion concept (flashover);
- Describe the backdraft concept;
- Describe the explosion of combustion gases (fire gas explosion);
- Identify the factors that influence the development and spread of fire in compartments;
- Identify the risks, hazards, and signs of extreme combustion.

■ Know what to do:

- Enter compartments under the safety rules for opening doors;
- Properly apply nozzle techniques to and around fire compartments;
- Avoid pyrolysis of materials through the correct application of nozzle techniques;
- Properly employ tactical ventilation techniques;
- Perform dynamic risk analysis correctly;
- Register before entering and after leaving the hazardous area;
- Use proper progression and communication techniques as a team member;
- Determine return pressure to leave the hazardous area before the BA safety warning sounds;
- Communicate status to Entry Control Officer, according to established procedures.

■ Learn how to act:

- Communicate with assertiveness;
- Adopt a responsible and safe attitude.

Recipients

Firefighters; Other professionals.

Prerequisites

Appropriate physical and psychic robustness, stated through the liability statement.

Trainees per instruction

Minimum of twelve (12) and maximum of sixteen (16) trainees per instruction.

Type of training

Certified training not included in the Portuguese National Qualifications Catalog - other professional training.

Form of organization of the training

Face-to-face, being mandatory 90% attendance.

Locations of training

In the facilities of the Portuguese National Fire Service School in Sintra.

Date and time of training

Date to be agreed with the client entity (two consecutive days).

Program content and workload

Program content	Workload			
	CT	PS	PCT	Total
Principles of Combustion	0h30			0h30
Compartment Fire Behavior	1h00			1h00
Entrance and progression techniques.	0h30			0h30
Control of extreme combustion phenomena	1h00			1h00
Simulated practice		12h00		12h00
Theoretical assessment	1h00			1h00
	4h00	12h00	- - -	16h00

CT: scientific-technological (theoretical);PS: simulated practice; PCT: practice in work context.

Training methodologies

Expositive method - the trainer develops orally the themes;

Interrogative method - formulation of questions in order to lead the trainee to find the desired results;

Demonstrative method - the trainer teaches to perform tasks, based on a demonstration;

Active method - execution of tasks and confrontation with simulated situations that demand the search for solutions.

Criteria and evaluation methodologies

The evaluation of the trainees is based on a summative assessment consisting of a theoretical assessment test and continuous practical assessment.

The theoretical evaluation consists of a test of 20 multiple choice questions, with a price of 1.0 value each. Continuous practical assessment consists of observing the trainee in the performance of duties as a member of an intervention team and will focus on the following parameters:

- Compliance with safety procedures;
- Compliance with operation procedures;
- Execution of all practical exercises proposed.

Each of the evaluations, theoretical and continuous practice, has an eliminatory character, and the student will have to repeat the course fail one of them.

For the training to be considered “Successful”, the trainee must obtain, on a scale from 0 to 20:

- Classification equal to or greater than 10 in the theoretical evaluation test, on a scale from 0 to 20;
- The “Average” classification in each of the parameters of the continuous practical evaluation test.

Human Resources

To be guaranteed by ENB:

Four instructors with specific professional qualification according to NFPA norms.

Spaces and equipments to be guaranteed by ENB:

- Training room;
- Locker room;
- Urban and industrial firefighting Personal Protective Equipment – PPE, consisting of: Protective helmet; Protective hood; Protective coat; Protective pants; Protective gloves; Protective boots; Overalls;
- Self-contained breathing apparatus (SCBA);
- Urban and industrial fire training camp;
- Urban firefighting vehicle;
- Portable radios.

Trainees must have:

T-shirts (cotton); thick socks for boots use; a change of underwear; personal hygiene products; bath slippers;

Identification Document (passport).

Certification

Once the action has been successfully completed, and after proper collection of the invoice (s), the respective certificates are issued.

Prices

Options	€
A: Price per individual registration <ul style="list-style-type: none">▪ Set of three instructions (five consecutive days – Monday to Friday):<ul style="list-style-type: none">- Operations Management – 8 hours;- Operations with self-contained breathing apparatus (SCBA) – 16 hours;- Advanced Course in compartment fire extinguishing (Flashover) – 16 hours.▪ Lunches included.	1.375,00€ (one thousand three hundred and seventy five euros)
B: Price per individual registration <ul style="list-style-type: none">▪ Set of three instructions (five consecutive days – Monday to Friday):<ul style="list-style-type: none">- Operations Management – 8 hours;- Operations with self-contained breathing apparatus (SCBA) – 16 hours;- Advanced Course in compartment fire extinguishing (Flashover) – 16 hours.▪ Lodging (five nights – double bedroom), breakfast, lunch and dinner (dinner from 1st to 4th days).	1.500,00€ (one thousand and five hundred euros)

Prices are exempt from VAT.

Observations

Lodging in a double bedroom or in a ward;

With two or more registrations, lunches are an offer.

Registrations

Complete Registration Form and send to: servicos@enb.pt.