CFPAEUROPE®

FIRE PREVENTION, SECURITY AND NATURAL HAZARDS TRAINING

2023

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General Information about the Confederation of Fire Protection Associations (CFPA-E)

Foundation date	1974
Website	www.cfpa-e.eu
Current members	24 European countries have members in CFPA Europe: • Albania: AFPRA www.afpra.al & T.Velaj • Austria: BVS, www.bvs-ooe.at • Belgium: ANPI, www.anpi.be • Czech Republic: Majaczech www.majaczech.cz • Denmark: DBI, www.dbi-net.dk • Estonia: P.Kalas • Finland: SPEK, www.spek.fi • France: CNPP, www.cnpp.com/eng/ • Germany: VdS, www.vds.de; vfdb, www.vfdb.de • Greece: ELIPYKA, www.elipyka.org • Iceland: B.Karlsson • Italy: AIAS, www.networkaias.it • Netherlands: VdS Nederland, www.vds-nederland.nl • North-Macedonia: Z.Kochoski • Norway: NBF, www.brannvernforeningen.no • Poland: SITP, www.sitp.home.pl • Portugal: APSEI, www.apsei.org.pt • Serbia: B.Vidakovic • Slovenia: SZPV, www.szpv.si • Spain: CEPREVEN, www.cepreven.com • Sweden: Brandskyddsföreningen, www.brandskyddsforeningen.se & Stöldskyddföreningen, www.stoldskyddsforeningen.se • Switzerland: Swiss Safety Center AG, www.safetycenter.ch • Turkey: FPPA www.fppa.org.tr • United Kingdom: FPA, www.thefpa.co.uk

Aims	• By sharing experience, research, technical know-how, and fire statistics, CFPA-E aims to raise standards and to maximize the effectiveness of fire science, fire prevention & protection, safety & security, natural hazards and other associated risks and reduce fire losses throughout Europe.
Achievements	• 2010: CFPA International (CFPA-I) was granted Roster Consultative Status to United Nations Economic & Social Council (ECOSOC) NGO Branch

Structure	**Management Committee** • Chairman • 2 Vice chairmen • Training Commission chairman • Guideline Commission chairman • Security Commission chairman • Marketing + Information Commission chairman **General Assembly** • Held annually
CFPA-E **Commissions**	• Training Commission • Guidelines Commission • Security Commission • Marketing + Information Commission
CFPA-E **Resources**	The Confederation has extensive resources within its membership. Its range of resources includes: • Engineers and technicians in the fields of fire prevention, security, arson and environmental problems • Test laboratories • Expertise in documentation, information and publishing • Facilities and skills in education and training • Inspection and audit services • Advisors in the fields of consultancy
CFPA-E **members are**	• Members of the Confederation of Fire Protection Associations International (CFPA-I). • CFPA-I is a body of 30 leading national fire protection organizations from around the world

CFPA-E **Activities**	**Partners:** • European Network of Safety and Health Professional Organisations (ENSHPO) **are linked to the work of:** • the European Commission • the CEN/CENELEC standards activity • EURALARM and EUROFEU • Insurance Europe • the Comité Technique International du Feu (CTIF) • the European Group of Fire Test Laboratories (EGOLF)
CFPA-E **Activities recognized by Organisations**	• The Insurance Europe/Prevention Forum has recognized the training programme for fire prevention developed by the Training Commission of CFPA-E as part of a framework to improve fire prevention in undertakings. • The National Insurers Associations support the training programme developed by their Prevention Organisations (usually members of CFPA-E) and the Training Commission of CFPA-E

Training Commission

Aims	• The Training Commission develops a structured programme of training syllabuses with the aim of providing pan-European harmonized qualifications for professionals in the field of fire science, fire prevention & protection, safety & security and natural hazards (see chapter 6 Annex: CFPA-E Courses).
Objectives	• Staff trained on fire safety, security and natural hazards will be able to stop fires starting, minimise the impact of a fire event, improve the safety and security at their workplace and therefore prevent the consequent loss of life and destruction of property and businesses
Achievements	• 1994: Start of the CFPA-E training programme. The Training Commission agrees on the syllabus for the course «Fire Safety – Technical Cycle» (Fire Protection Manager CFPA-E). It is launched as a Diploma course. Currently being delivered in 11 CFPA-E member countries. • 2010: the Training Commission agrees upon a Minimum Quality Standard in order to further improve the high standard of training in the delivery of the CFPA-E courses in the member countries (see: http://www.cfpa-e.eu/training.asp). All CFPA-E countries which use the CFPA-E logo for training (courses & examinations) and issue CFPA-E attests, certificates and diplomas have to adhere to this minimum quality standard. • 2023: CFPA-E has a portfolio of 14 Diploma courses, 11 Certificate courses and 16 Attest courses (see CFPA-E Courses Organised in Countries, p. 13)
Duration and Examination of CFPA-E courses	• Diploma course: minimum of 5 days, written examination plus a case study presented in writing or orally. • Certificate course: 1–5 days recommended, written examination • Attest course: 1–5 days recommended, no examination

Guidelines Commission

Aims	• By sharing experience, research, technical know-how, and fire statistics, the Guideline Commission aims to maximise the effectiveness of fire prevention and natural hazards and foster improved European fire safety codes and standards • It develops guidelines and presents recommendations for particular aspects of fire prevention & protection, safety & security and natural hazards related to problems of mutual concern (see chapter 5 Annex: Ratified CFPA-E Guidelines).
Objectives	• Users of the guidelines will be able to state the principal causes of fire and natural hazards and to minimise the consequent loss of life and destruction of property and businesses.
Achievements	• 2001: The Guidelines Commission starts its work. • 2002: The first Guideline «1:2002 Internal fire protection control» is ratified by the CFPA-E members. • 2023: Currently there are 40 ratified fire protection guidelines and 9 natural hazards guidelines

Security Commission

Aims	• By sharing experience, research, technical know-how, and security statistics, the Security Commission aims to maximise the effectiveness of security measures and foster improved European security codes and standards. • The Security Commission develops guidelines and training programmes for security related aspects.
Objectives	• Staff using the security guidelines will be able to maximise the effectiveness of security measures.
Achievements	• 2006: The Security Commission starts its work. • 2023: Currently there are 3 Diploma and 5 Attest courses and 11 ratified guidelines related to security.

Marketing + Information Commission

Aims	• The aim of the CFPA-E information activities is to position fire science, fire prevention & protection, safety & security, natural hazards and other associated risks as relevant issues within the general risk management. • Raise the level of public and commercial awareness of the hazards of fire, safety, security and natural perils.
Achievements	• 1994: The annual Leaflet informing about CFPA-E and its training activities is launched. • 2006: Website www.cfpa-e.eu goes live. • 2011: All diploma and certificate holders of all diploma and certificate courses from all CFPA-E member countries are published on the website (http://www.cfpa-e.eu/training.asp). • 2013: Relaunch of website

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Course Index

2 Course Index

2 CFPA-E Courses Organised in Countries

Number	Course	Optional subtitle of recognition	Course Duration in Days	CFPA Level	Austria	Belgium	Czech Republic	Denmark	Finland	France	Germany	Italy	Norway	Portugal	Serbia	Slovenia	Spain	Sweden	Switzerland	UK	Turkey
1.1	Fire Safety – Management Cycle	Fire Safety Manager CFPA-E	10	Dipl.		✓				✓	✓							✓		✓	✓
1.2	Fire Safety – Technical Cycle	Fire Protection Manager CFPA-E	15	Dipl.	✓	✓		✓	✓	✓	✓	✓		✓			✓	✓	✓	✓	✓
1.3	Fire Risk Management	Fire Risk Manager CFPA-E	5	Dipl.		✓					✓									✓	✓
1.4	Fire Risk Assessment	Fire Risk Assessor CFPA-E	5	Dipl.		✓												✓		✓	✓
1.5	Fire Safety and Security: Museums and Historical Premises Specialist	Fire Safety Specialist for Museums and Historical Premises CFPA-E	5	Dipl.		✓														✓	
1.6	Fire Safety and Security: Shopping Centres Specialist	Fire Safety Specialist for Shopping Centres CFPA-E	5	Dipl.																✓	
1.7	Performance Based Design for Fire Safety	Performance Based Design Reviewer CFPA-E	15	Dipl.																✓	
1.8	Explosion Protection Manager	Explosion Protection Manager CFPA-E	5	Dipl.						✓								✓	✓		
1.9	Thermography of Electrical Installations	Thermography Specialist CFPA-E	5	Dipl.							✓									✓	
1.10	Risk Management of Natural Hazards	Risk Manager of Natural Hazards CFPA-E	5	Dipl.															✓	✓	
1.11	Risk Management of Technical Safety	Risk Manager of Technical Safety CFPA-E	5	Dipl.															✓		
1.12	Principles of Fire Safety Engineering		5	Cert.		✓													✓	✓	
1.13	Principles of Fire Safety at Work	Fire Safety Coordinator CFPA-E	3-5	Cert.		✓			✓			✓	✓					✓	✓	✓	
1.14	Maintenance of Portable Fire Extinguishers	Portable Fire Extinguisher Maintenance Technician CFPA-E	4	Cert.		✓			✓	✓				✓						✓	
1.15	Explosion (Prevention and protection in places where explosive atmospheres may occur)	Explosion Protection Officer CFPA-E	2	Cert.							✓	✓		✓				✓	✓	✓	
1.16	Classification of Explosive Hazardous Areas	Classification of Explosive Hazardous Areas Officer CFPA-E	2	Cert.														✓		✓	✓
1.17	Fire Safety in Tranformation Facilities	Fire Safety Officer of Transformation Facilities CFPA-E	2	Cert.													✓			✓	
1.18	Operator of Stationary Fire Protection Systems and Fire Extinguishers Containing Flourinated Greenhouse Gases	Operator of Fluorinated Fire Protection Systems CFPA-E	2	Cert.		✓											✓			✓	
1.19	Hot Works	Hot Works Operative CFPA-E	1	Cert.		✓	✓	✓	✓		✓			✓	✓	✓		✓		✓	✓
1.20	Fire Safety during Construction Works	Construction Works Fire Safety Coordinator CFPA-E	1	Cert.		✓									✓			✓		✓	✓
1.21	Installation and Inspection of Products for Passive Fire Protection in Buildings	Passive Fire Protection Officer CFPA-E	2	Cert.		✓	✓								✓	✓	✓			✓	
1.22	Fire Protection Management System		1	Attest		✓								✓	✓					✓	

Number	Course	Optional subtitle of recognition	Course Duration in Days	CFPA Level	Austria	Belgium	Czech Republic	Denmark	Finland	France	Germany	Italy	Norway	Portugal	Serbia	Slovenia	Spain	Sweden	Switzerland	UK	Turkey
1.23	Basic Fire Fighting & Fire Prevention	Fire Warden CFPA-E	1	Attest		✓	✓				✓			✓	✓					✓	✓
1.24	Introduction to the Management of Hotel Fire Safety	Management of Hotel Fire Safey CFPA-E	1	Attest		✓							✓	✓	✓				✓	✓	
1.25	Evacuation Steward	Evacuation Steward CFPA-E	1	Attest		✓					✓		✓	✓	✓				✓	✓	✓
1.26	Business Continuity Planning	Business Continuity Planner CFPA-E	2	Attest		✓								✓				✓	✓	✓	
1.27	Sprinkler System: Basic Course		2	Attest		✓					✓								✓		
1.28	Sprinkler Operator	Sprinkler Operator CFPA-E	2	Attest		✓			✓		✓									✓	
1.29	Gas System Operator	Gas System Operator CFPA-E	2	Attest		✓					✓									✓	
1.30	Fire Detection and Alarm Systems Operator	Fire Alarm Systems Operator CFPA-E	1	Attest		✓			✓		✓				✓					✓	
1.31	Introduction to Thermography	Thermography Assistant CFPA-E	3	Attest							✓									✓	
1.32	Certificated Security Manager	Certificated Security Manager CFPA-E	15	Dipl.				✓					✓								
1.33	Security – Management Cycle	Security Manager CFPA-E	5	Dipl.				✓		✓	✓			✓					✓		
1.34	Security – Technical Cycle	Security Coordinator CFPA-E	5	Dipl.						✓	✓			✓					✓		
1.35	Management of Key and Access Systems	Key Systems Coordinator CFPA-E	1	Attest							✓										
1.36	Perimeter Protection Systems		2	Attest							✓			✓							
1.37	Fire Investigation		5	Cert.		✓				✓										✓	
1.38	Physical Security Techniques		3	Attest							✓										
1.39	CCTV Systems		3	Attest							✓			✓							
1.40	Intruder Alarm Systems		3	Attest		✓					✓										
1.41	Smoke and Heat Exhaust Systems Operator		1	Attest		✓					✓									✓	
	For contact details for countries running CFPA-E courses see p. 90																				

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Members of the Training, Guidelines, Security and Marketing + Information Commissions

CFPA-E Member	Training Commission	Security Commission	Guideline Commission	Natural Hazards Group	Marketing and Information Commission
ALBANIA TRAJF Tirana Zalli Street, Selitë					
AUSTRIA BVS – Brandverhütungs-stelle für Oö. registrierte Genossenschaft m.b.H. Petzoldstraße 45, Linz 4020	Wolfgang Neumüller Email : w.neumueller@bvs-ooe.at Phone : +43 732 7617-327			Hans Starl Email: h.starl@ibs-austria.at Phone: +43 (0)732 7617 874	Lisa Janout Email : l.janout@bvs-ooe.at Phone : 0043 732 7617-844
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ESTONIA Kaido Taberland Päästeliit Sirge 2 10618 Tallinn					

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CFPA-E Member	Training Commission	Security Commission	Guideline Commission	Natural Hazards Group	Marketing and Information Commission
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NORTH MACEDONIA Kouzon Corporation Str. Gjorche Petrov 1-1/45 Skopje					
NORWAY Norsk Brannvern Fore- ning, Postboks 6754, Etterstad, N-0609 Oslo	Monica Varan Email: mv@ brannvernforeningen.no Phone: +47 41105940				Monica Varan Email: mv@ brannvernforeningen.no Phone: +47 41105940
POLAND SITP – The Polish Associ- ation of Fire Engineers and Technicians ul. Świętokrzyska 14 PL - 00-050 Warszawa			Grzegorz Sypek Email: gsypek@gmail.com Phone: +48 603 236 010		
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CFPA-E Member	Training Commission	Security Commission	Guideline Commission	Natural Hazards Group	Marketing and Information Commission
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CFPA-E Europe – Diploma, Certificate and Attest

CFPA-E Europe – Diploma Holders

Country	CFPA Diploma	Diploma Holders	Diploma Holders
		01.01.1991 - 31.12.2022	01.01.2022 - 31.12.2022
Austria	Fire Safety - Technical Cycle	81	20
Belgium	Fire Safety - Technical Cycle	420	0
Denmark	Fire Safety - Technical Cycle	430	44
	Security - Certificated Security Manager	415	0
	Security - Technical Cycle	119	19
Finland	Fire Safety - Technical Cycle	257	0
France	Fire Safety - Technical Cycle	10.319	200
	Fire Safety - Management Cycle	552	47
	Explosion Protection Manager	15	5
	Security - Technical Cycle	1.446	114
	Security - Management Cycle	249	10
	Thermografy	404	0
Germany	Fire Safety - Technical Cycle	11.026	46
	Thermografy	22	10
	Fire Safety - Management Cycle	372	0
	Fire Safety - Risk Management	184	17
	Thermography of Electrical Installations	82	0
	Security - Technical Cycle	969	53
	Security - Management Cycle	502	20
Italy	Fire Safety - Technical Cycle	1.261	6
Portugal	Fire Safety - Technical Cycle	68	0
	Security - Technical Cycle	82	0
Spain	Fire Safety - Technical Cycle	472	51
Sweden	Fire Safety - Technical Cycle	506	12
	Fire Safety - Risk Assessment	355	12
	Fire Safety - Management Cycle	202	13
	Explosion Protection Manager	18	0
Switzerland	Fire Safety - Technical Cycle	1.537	27
	Risk Management of Natural Hazards	2	1
	Risk Management of Technical Safety	9	4
	Explosion Protection Manager	22	8
	Security - Certificated Security Manager	105	22
	Security - Technical Cycle	404	39
United Kingdom	Fire Safety - Technical Cycle	725	31
	Fire Safety - Management Cycle	63	12
	Fire Risk Assessment	667	0
Total		**34.362**	**843**

CFPAEUROPE®

CONFEDERATION OF FIRE PROTECTION ASSOCIATIONS (EUROPE)

Logo of the national association

This Diploma No ********** is awarded to

Candidate Name

in recognition of having satisfied the requirements of the CFPA EUROPE syllabus and examination

CourseName (CourseCode)

OptionalSubtitle

delivered by

NameofAssociation

Dates:	Dates
Duration:	Duration
Venue:	Venue

CHAIRMAN CFPA EUROPE

DIRECTOR (TRAINING)

CFPA-E Europe – Certificate Holders

Country	CFPA Certificate	Certificate Holders
		01.01.2022 - 31.12.2022
Belgium	-	0
Denmark	-	0
Finland	Maintenance of Portable Fire Extinguishers	15
France	Fire Investigation	43
	Principles of Fire Safety at Work	0
	Hot Works	0
	Maintenance of Portable Fire Extinguishers	2
Germany	Explosion	6
	Hot Works	4
Italy	Principles of Fire Safety at Work	7
Norway	Principles of Fire Safety at Work	0
Portugal	Explosion	2
	Installation and Inspection of Products for Passive Fire Protection in Buildings	0
	Maintenance of Portable Fire Extinguishers	43
Slovenia	Hot Works	133
	Installation and Inspection of Products for Passive Fire Protection in Buildings	81
Spain	Hot Works	23
	Fire Safety in Transformation Facilities	41
	Operator of Stationary Fire Protection Systems and Fire Extinguishers Containing Fluorinated Greenhouse Gases	70
Sweden	Classification of Explosive Hazardous Areas	20
	Principles of Fire Safety at Work	126
	Fire Safety during Construction Works	25
	Explosion	158
Switzerland	-	0
United Kingdom	Principles of Fire Safety at Work	52
	Maintenance of Portable Fire Extinguishers	108
	Hot Works	907
	Installation and Inspection of Products for Passive Fire Protection in Buildings	614
Total	-	**2.480**

CFPAEUROPE®

CONFEDERATION OF FIRE PROTECTION ASSOCIATIONS (EUROPE)

Logo of the national association

This Certificate No ********** is awarded to

Candidate Name

in recognition of having satisfied the requirements of the CFPA EUROPE syllabus and examination

CourseName (CourseCode)

OptionalSubtitle

delivered by

NameofAssociation

Dates:	Dates
Duration:	Duration
Venue:	Venue

CHAIRMAN CFPA EUROPE

DIRECTOR (TRAINING)

CFPAEUROPE®

CONFEDERATION OF FIRE PROTECTION ASSOCIATIONS (EUROPE)

Logo of the national association

This Attest is awarded to

Candidate Name

in recognition of having satisfied the requirements of the CFPA EUROPE syllabus

CourseName (CourseCode)

OptionalSubtitle

delivered by

NameofAssociation

Dates:	Dates
Duration:	Duration
Venue:	Venue

CHAIRMAN CFPA EUROPE

DIRECTOR (TRAINING)

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Annex: Ratified CFPA-E Guidelines

Ratified Guidelines – Fire safety

Guideline No.	Title	Summary
1:2015 F	Fire Protection Management System	The market imposes new demands for quality and safety. Today fire protection forms an integral part of a modern strategy for survival and competitiveness. This guideline gives a method for a systematic fire protection work.
2:2022 F	Panic & emergency exit devices	This guideline applies where the activity imposes demands on doors, not sliding doors, which shall be normally kept locked from the outside and/or prevent the passage of unauthorized persons, and shall also be capable of use as means of escape.
3:2011 F	Certification of thermographers	This guideline concerns the practice of thermography. In order for thermography to be carried out properly, it is essential that it is done by people, who have the right skills and experience in this area.
4:2022 F	Introduction to qualitative fire risk assessment	There are many methods of carrying out a fire risk assessment and examples are Gardner, Meseri, frame and the Fire Safety Concepts Tree. An analytical method enables a better fire risk assessment to be made and allows better control to be exercised over the fire hazards.
5:2016 F	Guidance signs, Emergency lighting and General lighting	This guideline contains different requirements concerning guidance signs, emergency lighting and general lighting.
6:2021 F	Fire safety in care homes	This guide aim to help with the planning, execution and maintenance of fire safety for individuals with weakened ability to act.
7:2022 F	Safety distance between waste containers and buildings	Many arson attacks target waste containers and other combustible objects located outside buildings. These relatively innocuous fires too often develop into fires that can cause significant injuries or property damage when they spread into the buildings. This guideline gives the owners and occupiers of premises some basic advice about ways to prevent these.
8:2004 F	Prevention arson – Information to young people	This guideline emphasizes the importance of providing information and education for young people, to deter them from committing arson. Main content is now in CFPA-E Guideline No 01:2022 S.
9:2012 F	Fire safety in restaurants	The measures described in the Guideline tend to dwell on fire safety on the kitchen, although its theme of risk assessment will involve restaurant management in a survey of fire hazards in all areas and a comprehensive approach to such hazards.
10:2022 F	Smoke alarms in the home	The aim of this guideline is to prevent injuries, loss of lives and property in fires in the homes, giving recommendations to consider in the installation of fire alarms.

CFPA-E Guidelines

Guideline No.	Title	Summary
11:2005 F	Recommended number of fire protection trained staff	This guideline specifies different levels of training and also makes recommendations about how many persons in a company should at less have those level trainings.
12:2023 F	Fire safety basics for hot work operatives	The aim of the guideline is to improve the understanding and attitude of hot work operatives so that, within a general approach of risk assessment, they can carry out hot work in a safe manner.
13:2015 F	Fire protection documentation	The aim of this guideline is to give a simple and accessible description of what fire protection documentation should look like.
14:2019 F	Fire protection in information technology facilities	The protection of IT equipment have high significance. An adequate safety level can only be guaranteed by an integrated concept. Special emphasis shall be placed on a sensible combination of protection measures.
15:2022 F	Fire safety in guest harbours and marinas	This guideline recommends fire precaution measures taken by the owner of the harbors and measures the guests may take to protect themselves from fire and explosions when they are visiting a harbor.
16:2016 F	Fire protection in offices	Good fire safety has many advantages when applied in offices. This guideline gives recommendations about how to deal with the main hazards in the office.
17:2015 F	Fire protection in farm buildings	This guideline highlights a number of important action areas and appropriate measures that are of general application in farms and should be aimed for.
18:2022 F	Fire and protection in chemical manufacturing site	This guideline applies to chemical manufacturing buildings and defines preventive and emergency measures, which help limit damage once a fire or explosion has occurred.
19:2023 F	Fire safety engineering concerning evacuation from buildings	This guideline supplies valid support for the evacuation strategy to allow occupants, anywhere within the structure, to be able to evacuate to a place of safety.
20:2022 F	Fire safety in camping sites	This guideline recommends fire precaution measures to be taken by the owner of the sites, and measures the guests may take to protect themselves from fires and explosions when they are visiting a camping site.
21:2021 F	Fire prevention on construction sites	The purpose of this guideline is to prevent as many fires on construction sites as possible and to reduce the severity of those that do occur, by presenting best practice regarding fire safety on construction sites.
22:2022 F	Wind turbines – Fire protection guideline	This guideline describes the typical risks of fire given under the special conditions of the operation of wind turbines, and proposes measures for loss prevention.
23:2010 F	Securing the operational readiness of fire control system	This guideline documents the operational readiness of fire control systems and regulates their design and control.

CFPA-E Guidelines

Guideline No.	Title	Summary
24:2016 F	Fire safe homes	This guideline set out the requirements that must be satisfied in order that a dwelling may be categorised as a Fire Safe Home. The intention is that this guideline should be applicable to all types of dwellings, from single family houses to flats in multi.storey buildings.
25:2010 F	Emergency plan	The aim of this guideline is to help a company or institution to be prepared for accidental situation e.g. fire and other incidents. This can be achieved by making a written document, the emergency plan.
26:2010 F	Fire protection of temporary buildings on construction sites	This guideline provides examples of acceptable solutions, which satisfy adequate fire protection requirements in temporary buildings. The content is now an attachment of CFPA E Guideline No. 21: 2021 F.
27:2021 F	Fire safety in apartment buildings	The objective of this guideline is to provide a reasonable safe environment for the occupants of apartment buildings and mainly to give them the opportunity to safely escape a fire.
28:2022 F	Fire safety in laboratories	This guideline provides recommendations to supplement national regulations for fire safety in laboratories of all sizes. The guidance is directed to property protection and business continuity, as well as life safety issues.
29:2019 F	Protection of paintings: Transport, exhibition and storage	he purpose of the guideline is to describe fire safety measures, applied specifically to the protection of paintings during transport, exhibition and storage.
30:2021 F	Basic principles of fire safety of historical buildings	This guideline provides knowledge about simple, basic, low-cost actions, which can be done to protect historic buildings from fire.
31:2021 F	Protection against selfignition and explosions in handling and storage of silage and fodder in farms	This guideline in intended to provide farmers themselves an adequate understanding of the phenomena of self-ignition and explosion and the prevention measures that can take to achieve an acceptable level of safety.
32:2014 F	Treatment and storage of waste and combustible secondary raw materials	These specifications substantiate the fire protection requirements and measures to be considered for recycling plants and mechanical-biological waste treatment plants from a general point of view and they are based on state-of-the-art fire protection expertise. They include specifications that help reduce fire hazards and their effects.
33:2015 F	Evacuation of people with disabilities	This guideline describes the measurements that should be considered when designing public premises that are accessible for people with disabilities.

CFPA-E Guidelines

Guideline No.	Title	Summary
34:2015 F	Emergency power supplies	This Guideline outlines practical measures that can be taken to reduce the number of fires associated with emergency power generating equipment. The guidance applies to the use of fixed and portable generators and also to uninterruptable power supplies that are often provided for computer installations and associated equipment.
35:2017 F	Fire safety in warehouses	This guideline concerns storage premises, both large and small. The measures concern not only owners, tenants and staff who administer and operate warehouses, but also the local population who may be affected by a serious fire in their immediate neighbourhood. It is intended that the contents will help to prevent fires from occurring and minimise the impact of any incident that does take place.
36:2017 F	Fire prevention in large tents	The purpose of this guideline is to assist safety practitioners in the development of fire safety measures and to ensure the safety of people in large tent(s) and marquees used for shows, circuses, trade fairs, exhibitions, etc.
37:2018 F	Photovoltaic systems: Recommendations on loss prevention	With this guideline all typical hazards and risks, e. g. fire, hail, lightning, storm and theft, are named which should be considered by the planning, installation and operation of PV-systems. In addition related recommendations, especially according to fixing of PV systems and their components on building are provided.
38:2022	Fire safety recommendations for short-term rental accommodations	The guideline applies to all short term rental structures, excluding hotels and similar. Due to the great variety of these structures, the guideline has been divided in two parts, the first including a few simple and low-cost safety requirements, and the second including some additional recommended safety measures. A checklist has been added, in order to help the inspection of the structures.
39:2021	Fire protection in schools	The guideline contains the fire safety requirements for all kind of schools with more than 30 people, excluding nurseries.
40:2022	Procedure to certify CFPA-E Fire Safety Specialists in Building Design	This Guideline presents a comprehensive procedure to qualify and recognize the knowledge and experience of a Fire Safety Specialist in Building Design, with the curriculum and competencies described. The procedure is developed, supported and recognized by the CFPA-E and its member Associations.

Ratified Guidelines – Natural Hazards

Guideline No.	Title	Summary
1:2012 N	Protection against flood	This guideline is intended to inform all the target audiences in terms of flooding hazards and associated risks.
2:2013 N	Business Resilience – An introduction to protecting your business	This document provides an introduction to ways in which management can adopt measures which will help a business survive the effects of a significant and potentially damaging event, such as a flood or a terrorist incident.
3:2013 N	Protection of buildings against wind damage	The wind movements by a storm can damage buildings and structures significantly. With the help of proper planning, construction techniques and continuous monitoring and maintenance, both the probability of occurrence and the extent of storm damage can be reduced.
4:2013 N	Lightning protection	This guidelines propose different methods to protect premises from ligtning.
5:2020 N	Managing heavy snow loads in the roofs	The Guideline gives recommendations on how to prepare before the winter season, how to remove the snow, and protection work for the snow season.
6:2016 N	Forest Fires	The purpose of this document is to establish good practice to prevent the occurrence of a forest fire, to describe the main mechanisms to combat it, and to give practical guidance to those living on the countryside or those who like to enjoy the woodlands as recreation places in order to limit the possibility that these activities can be source of a forest fire.
7:2022 N	Demountable / Mobile flood protection systems	The guideline covers the planning, selection, providing and using of mobile flood protection systems. Notes and typical criteria for selection of suitable mobile flood protection systems are given.
8:2022 N	Ensuring supplies of firefighting water in extreme weather conditions	This guide has been newly developed and focuses on the availability of the required firefighting water in extreme weather conditions with very high or low temperatures. In this context, it addresses the management issue of safe firefighting water supply as an essential prerequisite for effective firefighting, as well as the possible sources of usable water and its quality. With climate change, weather extremes are increasingly observed and expected. In this context, this guide also complements the existing CFPA E-Guideline No. 6 2016 N „Forest Fires“.

CFPA-E Guidelines

Guideline No.	Title	Summary
9:2022 N	Protection against hail damage	In the present guideline, recommendations on construction hail protection are systematically edited. They based on loss experiences in the past and recent years and on current hazard assessments, illustrated with loss patterns and loss figures. In this connection, exterior building components such as facades and roofs, as well as their extensions, e. g. photovoltaic systems, are particularly directly exposed. They must therefore be protected accordingly. In the meantime, standardized hail tests and building material or components with approved hail-resistant are available (see also www.hagelregister.com). It should also be considered that extreme weather events will increase according to scientific climate projections and experiences in last years in Europe, which is why the topic hail protection will become increasingly important.

Ratified Guidelines – Security

1:2022/S	Arson Document	This document provides background information and practical guidance on the prevention and control of arson.
2:2010/S	Protection of empty buildings	This document provides comprehensive information regarding the problems often associated with empty buildings, together with guidance concerning possible safeguards in order to reduce losses from empty buildings, whether due to theft, vandalism or deliberate fire raising (arson).
3:2010/S	Security systems for empty buildings	This document provides guidance on the subject of electronic security systems for empty buildings to assist those considering installing such systems. It supplements the CFPA publication Protection of Empty Buildings, 02:2010/S.
4:2010/S	Guidance on keyholder selection and duties (yet not ratified)	This document gives assistance to owners of electronic security systems at commercial premises in selecting appropriate persons to act as premises keyholders. It also provides guidance on ensuring the safety of keyholders, and keyholders' responsibilities when operating the system or attending the site in response to an activation/fault.
5:2022/S	Security Guidelines for Museums and Showrooms	This document gives assistance to operators of museums and showroom as well as to risk carrier (e.g. insurers). It helps identifying risks and developing strategies facing these risks.

CFPA-E Guidelines

Guideline No.	Title	Summary
6:2014/S	Security Guidelines for Emergency Doors in Non-Residential Premisis	The document assists specialists and end users in selecting suitable means to secure buildings against intrusion via emergency exit doors. They relate to commercial and public premises only and relates specifically to emergency exit doors. Windows and other openings are outside the technical scope of this document.
7:2016/S	Developing Evacuation and Salvage Plans for Works of Art and Heritage Buildings	The document will help establishments entrusted with works of art such as museums, libraries, archives, and churches to plan for the safe preservation of exhibits in the event of a catastrophic event, when timely action is critical. Others with custody of art property such as warehouses, forwarding companies, galleries and trade exhibition centres will also find the document highly relevant.
8:2016/S	Guidelines Security in Schools	This document assists those responsible for security in a school (e.g. school managers, school security personnel, authorities, etc.) as well as those wishing to see that students may learn in a safe and productive environment. The scope of the document is to provide information and guidance on security aspects in schools, including measures to minimise risks for physical property damage and for asset protection.
9:2016/S	Recommendation for the Control of Metal Theft	At times of high market demand for metal as a result of worldwide economic developments, and the correspondingly high prices available for scrap metal, the theft of metal materials, particularly attached to or outside buildings, such as cable, roofing, raw materials and finished products, causes significant disruption to business and community assets and can even result in injury and death. The problem can be mitigated partly by rigourous controls on scrap metal trading but these should be supported by the type of security options discussed in this guide.
10:2016/S	Protection of Business Intelligence	The readiness of unprincipled individuals and businesses to commit industrial espionage, sabotage and vandalism appears to be on the increase globally. This impacts the victim organisation through damage to competitiveness, market advantage, reputation and staff morale. These guidelines illustrate the risks and the action an organisation must take to protect its business information.
11:2018/S	Cyber Security for Small and Medium-sized Enterprises (SME)	Use of state-of-the-art IT to cope with operational, logistic, and technical business processes as well as the access to the internet are indispensable for all businesses. Digitisation and data networking involve new risks to be considered in the enterprise‘s risk management. These Guidelines are tailored to the needs of small and medium-sized enterprises (SME) and define minimum requirements for information security for them.

More information, see: **www.cfpa-e.eu**

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Annex: CFPA Courses (Templates)

1.1 Fire Safety: Management Cycle

1	**Duration**	10 days
2	**Aim**	The aim of this course is to explore further the areas covered in the CFPA Europe Diploma in Fire Prevention: Technical Cycle but focusing on organisational and management issues.
3	**Target Public**	• Safety managers, advisers or consultants of large companies • Experts, consultants in fire prevention • Everyone having fire prevention in their scope of activity
4	**Prerequisites**	• Holder of the CFPA Europe diploma in Fire Safety: Technical Cycle • Or have passed an examination which demonstrates the same level of knowledge
5	**Objectives**	At the end of the course the student will be able to: • recommend a fire safety policy to the executive management of the organisation; • advise the executive management about the measures, requirements, purchase and maintenance of fire protection, prevention and suppression systems and equipment; • manage and control the fire risks in their company; • be the contact person for authorities and the inspection bodies in the • field of fire safety and fire protection ; • provide information to employees and others with regard to fire safety and organise and undertake suitable training • manage all employees and others responsible for fire safety including fire wardens and fire intervention teams.
6	**Programme**	• European and national regulations (5 %) • Standards and specifications (5%) • Fire risk assessment including arson and exceptional situations (initial evaluation, solutions and follow-up) (15%) • Organisational topics of safety and security (15%) • Fire risk management (organisation, maintenance, personnel, training, inspections, security, subcontracting) (15%) • Concept of complete protection suitable for the company (10%) • Financial aspects (investments, insurance) (10%) • Disaster recovery plan (15%) • Crisis management + communication (10%)
7	**Related CFPA-E Guidelines**	• 1:2002 F; 11:2005 F
8	**Examination**	Written examination plus a case study management report presented in writing or orally
9	**Certificate – Diploma – Attest**	Diploma Optional subtitle «Fire Safety Manager CFPA-E»
10	**Countries Running the Course**	• France (formation@cnpp.com, www.cnpp.com) • Germany (ischlosser@vds.de, www.vds.de) • Spain (mrodriguez@cepreven.com, www.cepreven.com) • Sweden (utbildning@svbf.se, www.brandskyddsforeningen.se) • UK (training@thefpa.co.uk, www.thefpa.co.uk)

1.2 Fire Safety: Technical Cycle

1	**Duration**	15 days (min. 100 hours)
2	**Aim**	To provide students with technical knowledge of fire safety and fire protection systems and techniques in industrial and commercial premises.
3	**Target Public**	• Safety managers, advisers or consultants • Experts, consultants in fire prevention and authority staff • Inspectors and insurance professionals • Everyone having fire prevention in their scope of activity
4	**Prerequisites**	None
5	**Objectives**	At the end of the course students will be able to • identify risks, • understand how to control their causes and minimize the consequences, • understand the scope, use and application of prevention and protection systems and techniques, and the regulations and standards that apply.
6	**Programme**	• Regulations • Basic concepts • Construction • Energy • Design, control and maintenance of fire protection systems • Risks in industrial and commercial premises • Organisation • Application of lessons
7	**Related CFPA-E Guidelines**	• 1:2002 F; 2:2007 F; 4:2003 F; 5:2003 F; 7:2005 F; 9:2005 F; 11:2005 F; 12:2006 F; 13:2006 F; 14:2007 F; 16:2008 F; 19:2009 F
8	**Examination**	Written examination plus a case study management report presented in writing or orally
9	**Certificate – Diploma – Attest**	Diploma Optional subtitle «Fire Protection Manager CFPA-E»
10	**Countries Running the Course**	• Belgium (info@anpi.be, www.anpi.be) • Denmark (info@dbi-net.dk, www.dbi-net.dk) • Finland (info@spek.fi, www.spek.fi) • France (formation@cnpp.com, www.cnpp.com) • Germany (ischlosser@vds.de, www.vds.de) • Italy (isfop@networkaias.it, www.isfop.it) • Portugal (secretario.geral@apsei.org.pt, www.apsei.org.pt) • Spain (mrodriguez@cepreven.com, www.cepreven.com) • Sweden (utbildning@svbf.se, www.brandskyddsforeningen.se) • Switzerland (expertise.services@safetycenter.ch, www.safetycenter.ch) • UK (training@thefpa.co.uk, www.thefpa.co.uk)

1.3 Fire Risk Management

1	**Duration**	5 days
2	**Aim**	To provide students with technical knowledge to indentify fire risks, to make risk analyses, to manage fire risks, related financial risks as well as fire protection measures in industrial and commercial premises in order to make adequate recommendations to the management of the enterprise.
3	**Target Public**	Safety managers, advisers or consultants of insurers
4	**Prerequisites**	Basic knowledge of fire safety and fire protection
5	**Objectives**	At the end of the course students will be able to • identify fire risks in enterprises, • understand how to control their causes and minimize the consequences, • understand the scope, use and application of prevention and protection systems and techniques. • Students will be able to • recommend technical and financial measurers in order to manage the fire risk.
6	**Programme**	• General principles of risk management (methodology, concepts) • Fire Risk control (elimination of fire risk, fire prevention evaluation, project engineering, legal criteria, human elements, training) • Fire risk planning (self financing, fire insurance, other financing means, cost/benefit analysis, economic/financial criteria • Emergency planning (pre-loss planning, post-loss planning) • Case study
7	**Related CFPA-E Guidelines**	• 4:2003 F; 7:2005 F; 19:2009 F
8	**Examination**	Written examination plus a case study presented in writing or orally
9	**Certificate – Diploma – Attest**	Diploma Optional subtitle «Fire Risk Manager CFPA-E»
10	**Countries Running the Course**	• Germany (ischlosser@vds.de, www.vds.de) • Spain (mrodriguez@cepreven.com, www.cepreven.com) • UK (training@thefpa.co.uk, www.thefpa.co.uk)

1.4 Fire Risk Assessment

1	**Duration**	5 days
2	**Aim**	To provide delegates with a harmonized understanding of a range of fire risk assessment techniques and their practical application.
3	**Target Public**	Surveyors; Risk Managers; Security and Prevention Consultants; Insurers; Brokers; Installers, designers and maintenance staff; Controllers; Inspectors.
4	**Prerequisites**	Qualification or suitable experience in mathematics and a basic knowledge of the concepts of fire.
5	**Objectives**	At the end of the course students will be able to • apply a variety of fire risk assessment methods to enable the identification of practical solutions enabling equivalent levels of fire safety - considering both benefits and associated costs.
6	**Programme**	• The role of Risk Assessment in Fire Inspection • Fundamental Fire Prevention and Protection Concepts that a fire risk assessment should include • The most common international fire risk assessment methods and other national methods (three at least) • Presentation of the methods and practical applications.
7	**Related CFPA-E Guidelines**	• 4:2003 F; 7:2005 F; 19:2009 F
8	**Examination**	Presentation of a project work, providing practical solutions to a hypothetical problem utilizing at least two risk assessment methods and written examination.
9	**Certificate – Diploma – Attest**	Diploma Optional subtitle «Fire Risk Assessor CFPA-E»
10	**Countries Running the Course**	• Spain (mrodriguez@cepreven.com, www.cepreven.com) • Sweden (utbildning@svbf.se, www.brandskyddsforeningen.se) • UK (training@thefpa.co.uk, www.thefpa.co.uk)

1.5 Fire Safety and Security: Museums and Historical Premises Specialist

1	**Duration**	5 days (35 hours)
2	**Aim**	The aim of this course is to provide a suitable training programme for specialists working in museums and other similar premises
3	**Target Public**	All the people working in museums and in particular those involved in the design, management, insurance, security and fire prevention, protection and first intervention
4	**Prerequisites**	None, although it is recommended that delegates have a basic knowledge of security and fire prevention systems and techniques
5	**Objectives**	At the end of the course the students will: • recognise the principal problems in the organization and management of museums, • understand the different kinds of insurance appropriate to this activity, • have a good understanding of the security and fire prevention, protection and first intervention systems and techniques, • be able to undertake the development of emergency and protection plans and adequately implement these plans.

6	**Programme**	• Generalities
		  • Kind of buildings in use as museums and the type and nature of historical premises
		  • Fundamentals
		  • Historical legacy and importance
		• Management of Fire & Security in Museums
		• Insurances
		  • Quality guarantees for systems
		  • Insurance types
		• Fire Safety
		  • Automatic systems
		  • Fire Detection
		  • Fire extinguishment
		  • Manual extinguishers
		  • Possible damage caused by fire
		  • Storage protection
		• Security
		  • Detection
		  • CCTV
		  • Communications
		  • Access control
		• Emergency Planning
		  • Structure
		  • Risk assessment and analysis
		  • Emergency situations
		  • Evacuation of works of art
		  • Contingency planning

7	**Related CFPA-E Guidelines**	• 2:2007 F; 5:2003 F; 13:2006 F; 19:2009 F
8	**Examination**	Written examination plus a case study presented in writing or orally
9	**Certificate – Diploma – Attest**	Diploma - Optional subtitle «Fire Safety Specialist for Museums and Historical Premises CFPA-E»
10	**Countries Running the Course**	• Serbia (vidakovic.m@sbb.rs, www.ditur.rs) • Spain (mrodriguez@cepreven.com, www.cepreven.com)

1.6 Fire Safety and Security: Shopping Centre Specialist

1	**Duration**	5 days (35 hours)
2	**Aim**	The aim of this course is to provide a suitable training programme in fire safety and security matters for those working in shopping centres.
3	**Target Public**	• Fire safety managers and fire protection managers • Experts, consultants in fire prevention and security and authority staff • Installers, designers and maintenance staff • Inspectors • All personnel working in shopping centres in particular those involved in design, management and fire safety and security
4	**Prerequisites**	It is recommended that delegates have a basic knowledge of security and fire prevention systems and techniques.
5	**Objectives**	Upon conclusion of the course delegates will be able to: - • recognise the main problems associated with fire safety and security in shopping centres • identify risks • formulate solutions to fire safety problems • develop emergency action and protection plans and adequately implement these plans • know the specific regulations and standards related to shopping centres

6	**Programme**	• Basic Concepts – Buildings
		• Fire Safety Regulations and National Legislation
		• Fire Safety:
		  • Fire rating resistance for Compartments
		  • Fire reaction of Panelling and other coatings
		  • CE mark and construction products
		  • Manual extinguishers
		  • Automatic systems:
		  • Fire Detection
		  • Fire extinguishment
		  • Storage protection
		• Heat and Smoke control
		• Emergency planning:
		  • Structure
		  • Risk assessment
		  • Emergency situations
		  • Evacuation of works of art
		• Security: first approach
		  • The fire / security interface
		  • National legislation
		  • Detection
		  • CCTV
		  • Communication
		  • Access Control
		• Case Study

7	**Related CFPA-E Guidelines**	• 2:2007 F; 5:2003 F; 7:2005 F; 12:2006 F; 19:2009 F
8	**Examination**	Written examination plus a case study management report presented in writing or orally
9	**Certificate – Diploma – Attest**	Diploma - Optional subtitle «Fire Safety Specialist for Shopping Centres CFPA-E»
10	**Countries Running the Course**	• Serbia (vidakovic.m@sbb.rs, www.ditur.rs) • Spain (mrodriguez@cepreven.com, www.cepreven.com)

1.7 Performance Based Design for Fire Safety

1	**Duration**	15 days (100 hours) Course may be foreshortened by 5 days for those delegates who have successfully completed the CFPA Principles of Fire Safety Engineering course or pass a pre-course examination
2	**Aim**	The aim of this course is to develop in students a detailed understanding of the principles of performance based design techniques and fire engineering standards in order that they are better able to interpret building designs and fire safety solutions developed using these techniques.
3	**Target Public**	Building Control Authority Officers, Fire Authority Officers, Other Inspecting Officers, Consultant Engineers, Fire Engineers.
4	**Prerequisites**	Qualification or suitable experience in mathematics and a good understanding of the concepts of fire.

5	**Objectives**	• To provide a comprehensive understanding of the fundamentals of fire, how it is initiated, how it grows and the hazards that it generates
		• To give delegates an appreciation of how the factors associated with fire can be expressed in a quantitative way.
		• Undertake detailed review of national standards for fire engineering.
		• To provide a comprehensive understanding of the practical application of performance based design methods and techniques including:
		  • Setting objectives – Considering national standards and regulations
		  • Setting success criteria via comparative and risk assessed solutions
		  • Building design considerations
		  • Design review
		  • Quantified analyses
		  • Review of analysis against acceptance/success criteria
		  • Development of fire safety strategies
		  • Management considerations

6	**Programme**	
	Group	Unit Subject
	Design Review	• Setting objectives • Outlining success criteria • Comparative solutions • Risk assessed solutions • Review of national standards and legislation • Review of building description and design • Occupant characterisation
	Quantified Analysis	• Fire Growth and Development • Spread of smoke within and beyond enclosure of origin • Structural response and fire spread beyond enclosure of origin • Detection of fire and activation of fire protection systems • Fire service intervention • Evacuation
	Risk Assessment	• Purpose, probabilistic methods and outcomes
	Review	• Comparison of quantified analysis with success/acceptance criteria
	Fire safety strategy and Management	• Design of strategy and management routines to suit initial objectives and success criteria and quantitative solution.

1.7 Performance Based Design for Fire Safety

7	**Related CFPA-E Guidelines**	• 4:2003 F; 13:2006 F; 19:2009 F
8	**Examination**	Written examination plus a case study management report presented in writing or orally
9	**Certificate – Diploma – Attest**	Diploma Optional subtitle «Performance Based Design Reviewer CFPA-E»
10	**Countries Running the Course**	• Italy (isfop@networkaias.it, www.isfop.it) • UK (training@thefpa.co.uk, www.thefpa.co.uk)

1.8 Explosion Protection Manager

1	**Duration**	5 days (35 hours)
2	**Aim**	To provide participants with detailed knowledge of explosion protection management according to EU directives and national legislation.
3	**Target Public**	• Fire safety managers and fire protection managers • Explosion protection managers • Advisers and consultants
4	**Prerequisites**	None
5	**Objectives**	The student will be able to manage company‘s activities concerning risks with explosive atmosphere
6	**Programme**	• Objectives and programme of the CFPA-E course Explosion (Prevention and protection in places where explosives atmospheres may occur) • General principles of risk management • Explosion risk assessment and control • Explosion risk financing • Emergency planning • Organizational measures of explosion protection including coordination duties • Safety culture and training • European and national legislation (review) • Introduction to case study • Presentation of a case study of in-plant explosion protection
7	**Related CFPA-E Guidelines**	No 25:2010 Emergency plan No 04:2010 Introduction to qualitative fire risk assessment No 18:2008 Fire protection on chemical manufacturing sites
8	**Examination**	Written examination and a case study presented in writing or orally.
9	**Certificate – Diploma – Attest**	Diploma Optional subtitle «Explosion Protection Manager CFPA-E»
10	**Countries Running the Course**	• Germany (ischlosser@vds.de, www.vds.de) • Sweden (utbildning@svbf.se, www.brandskyddsforeningen.se) • Switzerland: (expertise.services@safetycenter.ch, www.safetycenter.ch)

1.9 Thermography of Electrical Installations

1	**Duration**	5 days (35 hours)
2	**Aim**	The aim of the course is to provide the necessary knowledge for perform thermography correctly and efficiently on electrical equip-ment, the aim being to prevent fires occurring.
3	**Target Public**	Thermographers who work on electrical installations to pinpoint possible defects, including fire risks.
4	**Prerequisites**	• Technical qualification which is at least equivalent to that of a trained electrician and • Training and education required under national legislation to be able to work on electrical installations and • Practical experience in thermography of electrical installations. The participants have to bring their own thermographic equipment.
5	**Objectives**	At the end of the course the student has the knowledge to use non-contact temperature measurements of electrical equipment and connections in all levels of voltage detect and evaluate thermic abnormalities. This knowledge is required by CFPA-E-guideline No. 3:2003 / F as one of the prerequisites for certification of thermographers.
6	**Programme**	• Thermodynamics and radiation • Infrared measurement techniques • General operation of equipment used for thermography • Overview of application of thermography • Structures of energy distribution systems • Ageing of electrical contacts and connections • Heating by electrical current • Electrical equipment for high-, medium- and low-voltage • Typical limit temperature of electrical equipment • National standards and legislation • Practical exercises • Evaluation of temperatures • Documentation of measurements and evaluation • Examination See also CFPA-Guidelines No. 3:2003/F para 5.1
7	**Related CFPA-E Guidelines**	CFPA-Guidelines No. 3:2003 / F
8	**Examination**	Written examination and a case study presented in writing or orally.
9	**Certificate – Diploma – Attest**	Diploma
10	**Countries Running the Course**	• France (formation@cnpp.com, www.cnpp.com) • Germany (ischlosser@vds.de, www.vds.de) • Spain (mrodriguez@cepreven.com, www.cepreven.com)

1.10 Risk Management of Natural Hazards

1	**Duration**	5 days
2	**Aim**	To provide students with an integrated and holistic view of risk management applied to natural hazards
3	**Target Public**	Executive and middle manager, specialists, safety managers, risk and consulting engineers, underwriters, consultants of insurers
4	**Prerequisites**	Basic understanding and experience in at least one aspect of practical safety management
5	**Objectives**	At the end of the course the students will: • understand risk management in form and content • be familiar with the regulatory framework and the standards • know the basics of risk perception • be able to understand, classify and communicate natural hazards in the holistic view of other existing system risks • know methods of qualitative and quantitative risk assessment of natural hazards (risk analysis and rating) • understand and be able to implement risk optimized safety measures: avoid, transfer, mitigate or retain the residual risk (i. e. crisis management and emergency planning) • be able to propose, evaluate and prioritise adequate safety measures for the recognised risks by cost-effectiveness criteria • be able to use risk management as a company management tool
6	**Programme**	• Different methods of risk assessment and risk evaluation • Risk management as a process • Risk optimized safety measures • Insurance and natural hazards • Regulatory framework and standards • Risk perception • Crisis and risk communication • Integrate risk management of natural hazards into other existing system risks • Case study: safety risk management with special focus on natural hazards
7	**Related CFPA-E Guidelines**	
8	**Examination**	Written examination plus a case study presented in writing or orally
9	**Certificate – Diploma – Attest**	• Diploma • Optional subtitle «Risk Manager of Natural Hazards CFPA-E»
10	**Countries Running the Course**	• France (formation@cnpp.com, www.cnpp.com) • Spain (mrodriguez@cepreven.com, www.cepreven.com) • Switzerland (expertise.services@safetycenter.ch, www.safetycenter.ch)

1.11 Risk Management of Technical Safety

1	**Duration**	5 days
2	**Aim**	To provide students with an integrated and holistic view of risk management applied to technical and / or process hazards resulting from hazardous incidents on industrial sites
3	**Target Public**	Executive and middle manager, specialists, safety managers, risk and consulting engineers, underwriters, consultants of insurers
4	**Prerequisites**	Basic understanding and experience in at least one aspect of practical safety management
5	**Objectives**	At the end of the course the students will: • understand risk management in form and content • be familiar with the related regulatory framework and the standards • know the basics of risk perception • be able to understand, classify and communicate technical safety in the holistic view of other existing system risks • know methods of qualitative and quantitative risk assessment of technical safety (risk analysis and rating) • understand and be able to implement risk optimized safety measures: avoid, transfer, mitigate or retain the residual risk (i. e. crisis management and emergency planning) • be able to propose, evaluate and prioritise adequate safety measures for the recognised risks by cost-effectiveness criteria • be able to use risk management as a company management tool
6	**Programme**	• Different methods of risk assessment and risk evaluation • Risk management as a process • Risk optimized safety measures • Insurance and technical safety • Regulatory framework and standards • Risk perception • Crisis and risk communication • Fire safety, occupational safety • Hazardous incidents • Integrate risk management of technical safety into other existing system risks • Case study: safety risk management with special focus on technical and / or process hazards resulting from hazardous incidents on industrial sites
7	**Related CFPA-E Guidelines**	
8	**Examination**	Written examination plus a case study presented in writing or orally
9	**Certificate – Diploma – Attest**	Diploma Optional subtitle «Risk Manager of Technical Safety»
10	**Countries Running the Course**	• Switzerland (expertise.services@safetycenter.ch, www.safetycenter.ch)

1.12 Principles of Fire Safety Engineering

1	**Duration**	5 days
2	**Aim**	The aim of this course is to develop in students a basic understanding of the principles of fire safety engineering standards and techniques in order that they are better able to interpret building designs and fire safety solutions developed using these techniques.
3	**Target Public**	• Building designers - all aspects • Fire engineers • Architects • Construction specialists • Inspectors
4	**Prerequisites**	Official technical diploma or degree and CFPA Europe diploma in fire prevention (Technical or Management cycle) or other advanced course (equivalence will be assessed by a written test)
5	**Objectives**	Upon successful completion of the course students will be able to: • interpret and understand the principal European rules on fire safety engineering in the construction sectors (EC 89/106 and its interpretative document - if appropriate) • evaluate fire safety equivalence with prescriptive guidance in building design • be aware of the behaviour of fire in compartmented and non compartmented structures

		• European and national regulations
		• Standards and specifications
		• Introduction to the essential requirements of fire safety engineering
		• Technical approach to fire safety
		• The principles involved in attaining the fire safety objectives:
		  • fire prevention
		  • stability of structures
		  • prevention of smoke and heat spread (within and beyond the enclosure of origin)
		• Safe evacuation
		• Safety for rescue-teams and fire fighters
		• Fire modelling and calculation of fire phenomena intended as an aid in the decision-making process.
		• Consolidated models for fire growth and smoke movement.
		• Practical application of fire protection engineering principles to the design of buildings (both compartment and non-compartmented buildings will be designed using criteria for life safety, property protection and business continuity)

7	**Related CFPA-E Guidelines**	• 4:2003 F; 13:2006 F; 19:2009 F
8	**Examination**	Written examination
9	**Certificate – Diploma – Attest**	Certificate
10	**Countries Running the Course**	• Italy (isfop@networkaias.it, www.isfop.it) • Spain (mrodriguez@cepreven.com, www.cepreven.com) • UK (training@thefpa.co.uk, www.thefpa.co.uk)

1.13 Principles of Fire Safety at Work

1	**Duration**	3-5 days
2	**Aim**	Upon successful completion of the course students will be able to assess fire risks, design emergency and evacuation plans, and organise and train fire fighting teams
3	**Target Public**	• Safety managers • Health and safety specialists who require an understanding of fire safety in the workplace • Inspectors and insurance professionals • Those responsible for prevention services in a workplace
4	**Prerequisites**	None
5	**Objectives**	To enable delegates to • train and organize fire fighting teams • assess the risk from fire in the workplace • assess and manage the residual risk in conjunction with their emergency plans
6	**Programme**	Elements of legislation, rules, responsibilities • Planning of fire protection and prevention systems • Risk assessment • Emergency plans, evacuation, means of escape • Organisational aspects of fire protection • Maintenance and control of fire fighting systems and equipment
7	**Related CFPA-E Guidelines**	• 1:2002 F; 2:2007 F; 5:2003 F; 11:2005 F; 12:2006 F; 13:2006 F; 14:2007 F; 16:2008 F
8	**Examination**	Written examination
9	**Certificate – Diploma – Attest**	Certificate Optional subtitle «Fire Safety Coordinator CFPA-E»
10	**Countries Running the Course**	• Belgium (info@anpi.be, www.anpi.be) • Finland (info@spek.fi, www.spek.fi) • Italy (isfop@networkaias.it, www.isfop.it) • Portugal (secretario.geral@apsei.org.pt, www.apsei.org.pt) • Sweden (utbildning@svbf.se, www.brandskyddsforeningen.se) • UK (training@thefpa.co.uk, www.thefpa.co.uk)

1.14 Maintenance of Portable Fire Extinguishers

1	**Duration**	4 days (32 hours)
2	**Aim**	To provide students with the necessary technical knowledge to perform the maintenance of fire extinguishers
3	**Target Public**	Individuals responsible for fire extinguisher's maintenance or those responsible for the supervision of maintenance work
4	**Prerequisites**	None

5	**Objectives**	At the end of the course the students will:
		• prepare and organize the work, according to the company procedures, technical specifications and health and safety regulations
		• perform the maintenance of fire extinguishers, using tools and equipments appropriate to the maintenance and fire extinguishers type:
		  • identify and classify the fire extinguishers, in order to define the type of maintenance to be performed
		  • collect and record the identification data of fire extinguishers, e.g. Type of fire extinguisher, serial number, date of the last maintenance/recharge, etc.
		  • check and rectify the status of the fire extinguishers components
		  • check the body of the fire extinguisher
		  • recharge the fire extinguisher using the appropriate fire extinguishant
		  • close and pressurize (if necessary) the fire extinguisher, in accordance with the manufacturer´s instructions and relevant standards
		  • verify the fire extinguisher, fit the seal and attach the label maintenance
		• ensure the maintenance and upkeep of the machines and tools used in the fire extinguisher maintenance
		• fill the maintenance report

6	**Programme**	Theory: • European and national regulations • Standards and specifications • Combustion principles and fire classes • Types and operation of fire extinguishers • Technology and construction materials • Service life and maintenance frequency • Rejection criteria of fire extinguishers • Planning of fire extinguisher maintenance • Health and safety • Inspection, maintenance and recharging • Records Pratice: • Use of tools and equipments • Inspection, maintenance and recharging of fire extinguishers • Records
7	**Related CFPA-E Guidelines**	None
8	**Examination**	Written and a compulsory practical examination

1.14 Maintenance of Portable Fire Extinguishers

9	**Certificate – Diploma – Attest**	Certificate
10	**Countries Running the Course**	• Finland (info@spek.fi, www.spek.fi) • France (formation@cnpp.com, www.cnpp.com) • Portugal (secretario.geral@apsei.org.pt, www.apsei.org.pt) • Spain (mrodriguez@cepreven.com, www.cepreven.com) • UK (training@thefpa.co.uk, www.thefpa.co.uk)

1.15 Explosion

(Prevention and protection in places where explosive atmospheres may occur)

1	**Duration**	Min. 2 days
2	**Aim**	To provide students with basic knowledge of prevention and protection measurements that is required according to EC directives.
3	**Target Public**	• Fire safety and fire protection managers • Individuals managing flammable liquids, gases or dust • Advisers and consultants
4	**Prerequisites**	Basic knowledge of the characteristics of flammable liquids, gases and dust
5	**Objectives**	The student will able to manage a company‘s activities concerning flammable liquids, gases or dust.
6	**Programme**	• Directive 1999/92/EC and 94/9/EC • National legislation • Standards • Assessment of explosion risks • Classification of places where explosive atmosphere may occur • Prevention and protection measurements • Explosion protection document • Equipment in explosive atmospheres
7	**Related CFPA-E Guidelines**	• 1:2002 F; 11:2005 F
8	**Examination**	Written examination
9	**Certificate – Diploma – Attest**	Certificate Optional subtitle «Explosion Protection Officer CFPA-E»
10	**Countries Running the Course**	• Denmark (info@dbi-net.dk, www.dbi-net.dk) • France (formation@cnpp.com, www.cnpp.com) • Germany (ischlosser@vds.de, www.vds.de) • Italy (isfop@networkaias.it, www.isfop.it) • Spain (mrodriguez@cepreven.com, www.cepreven.com) • Sweden (utbildning@svbf.se, www.brandskyddsforeningen.se)

1.16 Classification of Explosive Hazardous Areas

1	**Duration**	Minimum of 2 days (16 hours)
2	**Aim**	To provide participants with knowledge of how to establish a classification plan according to international standards and regulations.
3	**Target Public**	Individuals who will establish and review classification plans. For example risk engineers at process plants or consultants working with risk identification. Consultants in the ATEX work area, Contractors dealing with occasional work in hazardous areas
4	**Prerequisites**	Basic knowledge of the characteristics of flammable dust, liquids and gases. Knowledge in the physics of fire and explosions. Basic knowledge in the ignition process.
5	**Objectives**	To give the student tools and knowledge enough to work with classification of hazardous areas.
6	**Programme**	• Legislative background • Standards • Safety principles • Area classification objectives • Area classification procedure • Sources • Zones • Extent of zone • Types of ventilation • Degree of ventilation • Availability of ventilation • Drawings • Data sheets and tables • Practical examples
7	**Related CFPA-E Guidelines**	
8	**Examination**	Written examination
9	**Certificate – Diploma – Attest**	Certificate Optional subtitle «Classification of Explosive Hazardous Areas Officer CFPA-E»
10	**Countries Running the Course**	• Italy (isfop@networkaias.it, www.isfop.it) • Sweden (utbildning@svbf.se, www.brandskyddsforeningen.se) • Switzerland (expertise.services@safetycenter.ch, www.safetycenter.ch)

1.17 Fire Safety in Transformation Facilities

1	**Duration**	2 days (14 hours)		
2	**Aim**	The aim of this course is to give the basic technical knowledge of Fire Safety in Transformation Facilities: Indoor transformation facilities, outdoor transformation facilities, cable galleries		
3	**Target Public**	Individuals who work in Transformation Facilities. The course will also be of interest to those involved in the fire safety in Indoor transformation facilities, outdoor transformation facilities and cable galleries		
4	**Prerequisites**	Electrical Technician		
5	**Objectives**	At the end of the course the students will: • Recognise and identify the main hazards associated with fire safety in Transformation Facilities • Know the different types of Fire Prevention Measures • Know the specific regulations and standards related to Transformation Facilities • Have a good understanding of the different types of fire safety systems and equipment available and requirements for their testing and maintenance • Have a good understanding of the emergency and protection plans • Be aware of the behaviour of fire in compartmented and non compart-mented structures		
6	**Programme**	I	LEGISLATION	• Relevant fire safety legislation in transfor-mation facilities
		II	IDENTIFICATION OF HAZARDS	• Indoor Transformation Facilities • Outdoor Transformation Facilities • Cable Galleries
		III	FIRE PREVENTION MEASURES	• Switches • Conductors • Electrical Connections • Live Parts • Transformers

		IV	FIRE PROTECTION MEASURES	• Passive Fire Protection:
				  • Fire rating of walls and doors
				  • Compartment Size
				  • Sealed of penetrations
				  • Oil spilled drainage or containment
				• Active Fire Protection:
				  • Fire Detection Systems (aspiration, temperature cable detectors smoke detector)
				  • Fire Extinguishing Systems (water mist, water spray, foam-water, gases)
				  • Communications of alarm
				• Evacuation:
				  • Maximum Distance between exits
				  • Requirements for stairs
				  • Signalization
				  • Emergency Lighting
				  • Ventilation

		V	PERIODICAL INSPECTIONS AND MAINTENANCE	• Cable insulation integrity, thermography, cable connections, ventilation….

1.17 Fire Safety in Transformation Facilities

7	**Related CFPA-E Guidelines**	• 3: 2011
8	**Examination**	Written examination
9	**Certificate – Diploma – Attest**	Certificate Optional subtitle «Fire Safety Officer of Transformation Facilities CFPA-E»
10	**Countries Running the Course**	• Spain (mrodriguez@cepreven.com, www.cepreven.com)
11	**Guidance Notes**	This course syllabus has been prepared taking recognition of the guidance contained in CFPA-E new proposed Guideline “Fire Safety in Transformation Facilities” www.cfpa-e.eu).

1.18 Operator of Stationary Fire Protection Systems and Fire Extinguishers Containing Fluorinated Greenhouse Gases

1	**Duration**	2 days (16 hours) . 8 hours for theoretical lessons . 6 hours for practical lessons . 2 hours for the examination
2	**Aim**	Training of the personnel, carrying out activities in stationary fire protection systems and fire extinguishers systems, containing fluorinated greenhouse gases, in order to obtain the necessary skills and knowledge according to the requirements of the European Regulation (EC) 842-2006.

3	**Target Public**	• Personnel carrying out the following activities, related to fire protection systems:
		  • Leakage checking of applications containing three kilograms or more of fluorinated greenhouse gases
		  • Recovery, also with regard to fire extinguishers
		  • Installation
		  • Maintenance or servicing
		• Technician, Installers, designers and maintenance staff.
		• All personnel interested to obtain the certification of necessary skills to carrying out activities in stationary fire protection system and fire extinguishers containing fluorinated green house gases.

4	**Prerequisites**	Basic Knowledge in fire protection Technician
5	**Objectives**	To give the student tools and knowledge enough to work with classification of hazardous areas.

6	**Programme**	• Basic knowledge of relevant environment issues (climate change, Kyoto Protocol, global warming potential of fluorinated greenhouse gases)
		• Relevant technical National and European standards and legislation
		• (Basic Knowledge of relevant provisions of Regulation (EC) Nº 842/2006 and of the relevant Regulations implementing provisions of Regulation (EC) Nº 842/2006)
		• Fire protection systems containing fluorinated greenhouse gases on the market.
		• Equipment and tools required for safe handling and work practices.
		• Fire protection equipment and components:
		  • types of valves
		  • actuators
		  • safe handling
		  • discharge and leakage prevention
		• Procedure to install fire protection system containers designed to contain fluorinated greenhouse gases
		• Correct practices to move pressurised containers containing fluorinated greenhouse gases
		• Procedure to check system records prior to a check for leakage and identify the relevant information on any repeating issues or problem are-as to pay attention to
		• Procedure to make a visual and manual checking of the system for leak-age in accordance with Commission Regulation (EC) Nº 1497/2007 of 18 December 2007 establishing, pursuant to Regulation (EC) Nº 842/2006 of the European Parliament and of the Council, standard leak-age checking requirements for stationary fire protection systems contain-ing certain fluorinated greenhouse gases
		• Environmentally friendly practices for the recovery of fluorinated green-house gases from and charging of fire protection systems

1.18 Operator of Stationary Fire Protection Systems and Fire Extinguishers Containing Fluorinated Greenhouse Gases

7	**Related CFPA-E Guidelines**	
8	**Examination**	Written examination
9	**Certificate – Diploma – Attest**	Certificate Optional subtitle «Operator of Fluorinated Fire Protection Systems CFPA-E»
10	**Countries Running the Course**	• Spain (mrodriguez@cepreven.com, www.cepreven.com)

1.19 Hot Works

1	**Duration**	1 day
2	**Aim**	To provide delegates with a clear understanding of the risks associated with hot work activities, how to prevent accidents and how to act in emergency situations.
3	**Target Public**	All individuals undertaking hot work at temporary work sites.
4	**Prerequisites**	None
5	**Objectives**	Upon successful completion of the course students will be able to: • identify hot work risks • assess risks in specific hot work situations • understand the contents and requirements of national standards • understand the characteristics of gases used in hot works • Students • can carry out the required safety tasks prior, during and after hot work activities • can handle hot work tools in a safe manner • know alternate and safe work methods • are familiar with the portable extinguishing equipment and can use it • demonstrate a positive attitude to carrying out hot works in a safe manner
6	**Programme**	• Review of damages caused by hot works • Safety standards and requirements • Safety measures for hot works • Hot works in special circumstances • Theory of first-aid extinguishing • Action in accident situations • First-aid extinguishing and safety measures • Practical work
7	**Related CFPA-E Guidelines**	• 12:2006 F
8	**Examination**	Delegates will be required to undertake an examination. Passing the examination may be prerequisite (in some European countries) for the award of a Hot Works Certificate which is needed when carrying out hot works.
9	**Certificate – Diploma – Attest**	Certificate Optional subtitle «Hot Works Operative CFPA-E»
10	**Countries Running the Course**	• Belgium (info@anpi.be, www.anpi.be) • Denmark (info@dbi-net.dk, www.dbi-net.dk) • Finland (info@spek.fi, www.spek.fi) • France (formation@cnpp.com, www.cnpp.com) • Germany (ischlosser@vds.de, www.vds.de) • Italy (isfop@networkaias.it, www.isfop.it) • Slovenia (info@szpv.si, www.szpv.si) • Sweden (utbildning@svbf.se, www.brandskyddsforeningen.se) • UK (training@thefpa.co.uk, www.thefpa.co.uk)

1.20 Fire Safety during Construction Works

1	**Duration**	1 day (7 hours)		
2	**Aim**	The aim of this course is to provide a suitable training programme for those responsible for managing fire safety during construction or refurbishment works		
3	**Target Public**	Site managers, building managers, facilities managers, fire safety managers and coordinators and others involved in the management of contract or sub-contract works. The course will also be of interest to those involved in the insurance and security of such premises.		
4	**Prerequisites**	None, although beneficial that delegates have a basic knowledge of fire safety and fire prevention systems and techniques.		
5	**Objectives**	At the end of the course the students will: • Recognise the principal problems in the organization and management of fire safety during construction work • Be aware of the key causes of fires and associated hazards in such circumstances • Understand the different types of fire safety systems and equipment available to manage identified hazards and requirements for their testing and maintenance • Be familiar with the management tools and techniques available to support fire safety during construction work, including hot work permits, record keeping, staff training etc. • Have a good understanding of the fire prevention, protection and first intervention systems and techniques including design of means of escape • Be able to undertake the development of emergency and protection plans and adequately implement these plans		
6	**Programme**	I	OVERVIEW	• Relevant fire safety legislation • Basics of fire science and fire spread • Principal fire hazards on construction sites and associated risk factors • Prevention and mitigation techniques • Building systems, techniques and materials

		II	FIRE SAFETY SYSTEMS & EQUIPMENT	• Means of escape design
				• Passive systems
				  • Compartmentation
				  • Fire doors & glazing
				  • Cavity barriers and fire stopping
				• Automatic systems
				  • Fire Detection
				  • Fire extinguishment
				• Manual extinguishers

		III	FIRE SAFETY MANAGEMENT TOOLS AND TECHNIQUES	• Staff training • Record keeping • Fire drills • Security
		IV	EMERGENCY PLANNING	• Fire risk assessment and analysis • Emergency action plans • Evacuation routines and protocols
7	**Related CFPA-E Guidelines**	• 21:2009 F		
8	**Examination**	Written examination		

1.20 Fire Safety during Construction Works

9	**Certificate – Diploma – Attest**	Certificate Optional subtitle «Construction Works Fire Safety Coordinator CFPA-E»
10	**Countries Running the Course**	• Italy (isfop@networkaias.it, www.isfop.it) • Portugal (secretario.geral@apsei.org.pt, www.apsei.org.pt) • Spain (mrodriguez@cepreven.com, www.cepreven.com) • Sweden (utbildning@svbf.se, www.brandskyddsforeningen.se) • UK (training@thefpa.co.uk, www.thefpa.co.uk)

1.21 Installation and Inspection of Products for Passive Fire Protection in Buildings

1	**Duration**	2 days (14 hours), modular • 1st day the same for all products, • 2nd day specific for each product family		
2	**Aim**	The aim of this course is to give the basic technical knowledge of build-in fire safety measures in buildings, the legislation and basic knowledge about the products for fire protection of buildings (characteristics, classification, and documentation of conformity).		
3	**Target Public**	Installers of building products. The course will also be of interest to those involved in controlling the installation of building products for fire protection in buildings.		
4	**Prerequisites**	Technician		
5	**Objectives**	At the end of the course the students will: • Understand the basics of fire spread in buildings. • Be aware of the different types of passive fire protection measures. • Be familiar with the specific regulations and standards related to building products for fire protection of the buildings. • Be aware of the different types of building products for fire protection of the buildings (products for passive fire protection, fire safety systems and equipment) • Have a good understanding of the requirements for their application, installation and maintenance.		
6	**Programme**	I	BASICS OF FIRE SPREAD IN BUILDUINGS	• Fire triangle • Fire time/temperature curves • Influence of building materials, venting, dimensions of the room on the spread of fire • Basics of passive and active fire protection measures
		II	LEGISLATION	• Relevant fire safety legislation for building products for fire safety in EU (CPD directive) • Relevant national legislation for the installation building products

		III	FIRE PROTECTION ELEMENTS	• Passive Fire Protection:
				  • Classes of building materials
				  • Fire rating of walls and doors
				  • Fire rating of other building products, used for fire protection of buildings
				  • Isolation; compartment structural protection
				• Technical Fire Protection, the connection of Passive and Active fire protection measures:
				  • Signalization
				  • Ventilation: Smoke and temperature control
				  • Fire retardant painting

		IV	PERIODIC INSPECTION AND MAINTENANCE	• Legislation requirements • Technical specifications • Inspection procedures
		V	INSTALLATION OF CERTAIN PRODUCTS	• Specifics of the installation of certain building products • Details at the mounting

1.21 Installation and Inspection of Products for Passive Fire Protection in Buildings

7	**Related CFPA-E Guidelines**	
8	**Examination**	Written examination
9	**Certificate – Diploma – Attest**	Certificate
10	**Countries Running the Course**	• Italy (isfop@networkaias.it, www.isfop.it)
11	**Guidance Notes**	• Documents of the Association for Specialists Fire Protection (ASFP)

1.22 Fire Protection Management System

1	**Duration**	1 day
2	**Aim**	The aim of this course is to teach students how to systematically pinpoint risks, develop goals, organise, train, check, document and monitor all aspects of fire safety in order to protect their business.
3	**Target Public**	• Fire protection engineers • Fire protection managers • Experts and consultants in fire protection • Those required to undertake fire safety inspections
4	**Prerequisites**	Basic knowledge in fire protection
5	**Objectives**	Upon successful completion of the course delegates will be able to incorporate fire protection issues into their companies management, business planning routines and quality management systems.
6	**Programme**	Programme based on CFPA Guideline 1:2002: • Fire protection policy • Action plan • Fire protection organisation • Training plans • Fire protection guidelines • Description of fire protection • Operating and maintenance • Instructions • Control system • Documentation • Monitoring
7	**Related CFPA-E Guidelines**	• 1:2002 F; 11:2005 F
8	**Examination**	None
9	**Certificate – Diploma – Attest**	Attest
10	**Countries Running the Course**	• Sweden (utbildning@svbf.se, www.brandskyddsforeningen.se) • UK (training@thefpa.co.uk, www.thefpa.co.uk)

1.23 Basic Fire Fighting & Fire Prevention

1	**Duration**	1 day
2	**Aim**	To provide students with a greater awareness and understanding of the threat posed by fire, their personal responsibility in preventing an outbreak and the action to be taken should a fire occur.
3	**Target Public**	First intervention team members, fire wardens/marshals
4	**Prerequisites**	None
5	**Objectives**	Upon completion of the course students will be able to: • execute their fire safety responsibilities • understand the nature of fire and how it spreads • have developed a greater awareness of the hazards of fire • understand why emergency procedures are implemented • distinguish between the different types of extinguisher and the fires for which they are suited • tackle small fires with confidence
6	**Programme**	• Fire Statistics • Combustion Principles • Hazard Identification • Legislation • Evacuation Principles • Specific Responsibilities • Fire Extinguishment – theory • Selection, Actuation and Operation of Portable Fire Fighting Equipment • Fire Extinguishment – practical
7	**Related CFPA-E Guidelines**	• 1:2002 F
8	**Examination**	None
9	**Certificate – Diploma – Attest**	Attest Optional subtitle «Fire Warden CFPA-E»
10	**Countries Running the Course**	• Belgium (info@anpi.be, www.anpi.be) • France (formation@cnpp.com, www.cnpp.com) • Germany (ischlosser@vds.de, www.vds.de) • Portugal (secretario.geral@apsei.org.pt, www.apsei.org.pt) • Spain (mrodriguez@cepreven.com, www.cepreven.com) • UK (training@thefpa.co.uk, www.thefpa.co.uk)

1.24 Introduction to the Management of Hotel Fire Safety

1	**Duration**	1 day (7 hours)		
2	**Aim**	The aim of this course is to provide an introductory training programme for those responsible for managing fire safety in hotels and other similar premises. *For those wishing to gain a greater depth of knowledge please see the guidance notes in section 11 below.*		
3	**Target Public**	Hotel managers, duty managers, shift and section managers; particularly those working in larger establishments and including those responsible for catering, housekeeping and the like. The course will also be of interest to those involved in the insurance and security of such premises.		
4	**Prerequisites**	None, although it would be beneficial that delegates have a basic knowledge of fire prevention systems and techniques.		
5	**Objectives**	At the end of the course the students will: • Recognise the principal problems in the organization and management of fire safety in hotels • Be aware of the key causes of fires and associated hazards in such premises • Recognise the different types of fire safety systems and equipment available to manage identified hazards and requirements for their maintenance • Be familiar with the management tools and techniques available to support fire safety in hotels, including record keeping, staff training etc. • Be aware of the fire prevention, protection and first intervention systems and techniques • Be able to adequately implement emergency evacuation and protection plans.		
6	**Programme**	I	OVERVIEW	• Relevant fire safety legislation • Basics of fire science and fire spread • Principal fire hazards in hotel premises and associated risk factors • Prevention techniques

		II	INTRODUCTION TO FIRE SAFETY SYSTEMS & EQUIPMENT	• Passive systems
				  • Compartmentation
				  • Fire doors & glazing
				• Automatic systems
				  • Fire Detection
				  • Fire extinguishment
				• Manual extinguishers
				• Maintenance schedules

		III	FIRE SAFETY MANAGEMENT TOOLS AND TECHNIQUES	• Staff training • Record keeping
		IV	EMERGENCY PLANNING	• Emergency action plans • Evacuation of staff and members of the public including disabled persons
7	**Related CFPA-E Guidelines**	1:2002, 2:2007, 5:2003, 11:2005, 12:2006, 13:2006, 14:2007, 16:2008, 21:2009 All Guidelines are available for free download from www.cfpa-e.eu		
8	**Examination**	None		
9	**Certificate – Diploma – Attest**	Attest Optional subtitle «Management of Hotel Fire Safey CFPA-E»		

1.24 Introduction to the Management of Hotel Fire Safety

10	**Countries Running the Course**	• Sweden (utbildning@svbf.se, www.brandskyddsforeningen.se) • Switzerland (risktraining@swissi.ch, www.swissi.ch)
11	**Guidance Notes**	This course syllabus has been prepared taking recognition of the guidance con-tained in CFPA-E Guideline 11. *Recommended numbers of fire protection trained staff* (available for free download from www.cfpa-e.eu). Those requiring a more in-depth understanding of the key issues or wishing to in-crease their levels of understanding should consider completing the 5-day CFPA-E course *Principles of Fire Safety at Work*. For those responsible for the operation of larger hotels (>200 beds) Guideline 11 recom-mends that the CFPA-E syllabus *Fire Safety Technical Cycle* is followed.

1.25 Evacuation Steward

1	**Duration**	1 day
2	**Aim**	This course aims to provide training covering the escort of personnel, customers and visitors in buildings with high density of population or special evacuation problems (hospitals, care-homes). A second aim is to provide training in the control of evacuation of that particular building.
3	**Target Public**	Those responsible for assisting in the evacuation of staff and visitors from a building
4	**Prerequi-sites**	None
5	**Objectives**	At the end of the session , students will understand and be able to use adequately evacuation techniques

6	**Programme**	• The European Safety Signs:
		  • to recognise and understand the different pictograms used to indicate the evacuation and escape routes, dangers in particular places (storage of flammable liquids and hazardous substances, electrical equipment, radiation zones, prohibited actions (smoking, no flames), fire equipment (ladders, location of telephone), emergency evacuation lighting and photoluminescent signs and products
		• In-built» protection
		  • Fire doors : identification, kinds of fire doors and their activation
		  • Smoke extraction from evacuation staircases
		  • No use of elevators and escalators
		  • Manual operation and automatic fail-safe of security/access control mechanisms in the event of an evacuation
		• Evacuation Techniques :
		  • Importance of the meeting/assembly point for the control on the evacuation
		  • «Bulldozer» method : building is empty
		  • «Escorted» method : building is empty and the people who were in the building are present and safe at the meeting/assembly point.
		  • Partial Evacuation : only one compartment is evacuated
		  • Phased Evacuation : only endangered compartment and nearby compartments are evacuated initially with more remote compartments evacuated in turn
		  • Complete Evacuation
		  • The importance of having a refuge point for disabled staff or those who require assistance (i.e. in hotels, hospitals, schools, care-homes etc.)
		• Practice :
		  • Demonstrations :
		  • The effects of a fire, the smoke, the heat and the lack of visibility in a room (with the door closed and with the door in pen position)
		  • The effects of the different fire extinguishers and hose reel (visibility, aggressiveness, smoke development,…)
		  • Demonstration of the issues associated with the evacuation of personnel when facing real smoke and heat.
		  • Evacuation supervision and control: -
		  • Explanation of the techniques involved in controlling the flow of personnel in conditions of reduced or no visibility
		  • Exercise putting into practice the techniques learned for controlling the flow of personnel in conditions of reduced or no visibility
		  • Practical exercise using the techniques learned for the control of personnel in conditions of reduced or no visibility

1.25 Evacuation Steward

6	**Programme**	• Victims :
		  • Victim with burns = cooling the burns
		  • Victim suffering from the effects of inhaling toxic gases and smoke:- conscious = half seated position, unconscious = lateral safety position
		• Transport of victims :
		  • Rautek grip
		  • Evacuation with a chair
		  • Extraction of a victim in immediate danger (fire or smoke)

7	**Related CFPA-E Guidelines**	• 2:2007 F; 5:2003 F; 19:2009 F
8	**Examination**	None
9	**Certificate – Diploma – Attest**	Attest Optional subtitle «Evacuation Steward CFPA-E»
10	**Countries Running the Course**	• Belgium (info@anpi.be, www.anpi.be) • France (formation@cnpp.com, www.cnpp.com) • Germany (ischlosser@vds.de, www.vds.de) • Portugal (secretario.geral@apsei.org.pt, www.apsei.org.pt) • Spain (mrodriguez@cepreven.com, www.cepreven.com)

1.26 Business Continuity Planning

1	**Duration**	Min. 2 days
2	**Aim**	To consider the range of emergencies or incidents such as fire, loss of critical equipment/personnel, denial of access, flood or theft which may affect a business and look at how to plan and prepare to deal with such incidents in order that an organisation may continue to function and trade.
3	**Target Public**	Those responsible for continuity planning in their organisations operations involving fire safety and safety of the employees in the event of a disaster.
4	**Prerequisites**	None
5	**Objectives**	On completion of the course students will have the knowledge to perform or support continuity planning activities inside their own company.
6	**Programme**	• Identify risks • Evaluate critical risks • Crisis management – planning • Crisis management – organisation • Internal communication • Public and press relations
7	**Related CFPA-E Guidelines**	• 1:2002 F; 19:2009 F
8	**Examination**	None
9	**Certificate – Diploma – Attest**	Attest Optional subtitle «Business Continuity Planner CFPA-E»
10	**Countries Running the Course**	• France (formation@cnpp.com, www.cnpp.com) • Spain (mrodriguez@cepreven.com, www.cepreven.com) • Sweden (utbildning@svbf.se, www.brandskyddsforeningen.se) • Switzerland (expertise.services@safetycenter.ch, www.safetycenter.ch) • UK (training@thefpa.co.uk, www.thefpa.co.uk)

1.27 Sprinkler System: Basic Course

1	**Duration:**	2 days
2	**Aim:**	The aim of this course is to give the fundamental information for persons who have to deal with sprinkler systems.
3	**Target public**	Individuals who need basic knowledge about water extinguishing systems for their work
4	**Prerequisites**	Technician
5	**Objectives**	The students will understand design and function of water extinguishing systems
6	**Programme**	• Basic fire extinguishing systems • Different kinds of water extinguishing systems (wet, dry, deluge, foam and others) • Scope of protection in premises • Classification, water density and minimum duration of operation etc. • Water and energy supply • Electronic monitoring, electric control of systems, alarms • Sprinkler protection of special buildings (e.g. high rise, storage etc) • Hydraulics (basics) • Maintenance
7	**Related CFPA-E Guidelines**	
8	**Examination**	None
9	**Certificate – Diploma – Attest**	Attest
10	**Countries Running the Course**	• France (formation@cnpp.com, www.cnpp.com) • Germany (ischlosser@vds.de, www.vds.de) • Portugal (secretario.geral@apsei.org.pt, www.apsei.org.pt) • UK (training@thefpa.co.uk, www.thefpa.co.uk)

1.28 Sprinkler Operator

1	**Duration**	2 days
2	**Aim**	The aim of this course, is to give the necessary information for persons who are responsible for the operation and internal maintenance and end user inspection* of sprinkler systems.
3	**Target public**	Individuals responsible for sprinkler system in their premises.
4	**Prerequisites**	Technician
5	**Objectives**	The student will be able to do the periodical internal end user inspections* (e.g. weekly; see sprinkler rules) (* End user inspections should not be mistaken for the professional periodic inspection/maintenance required by national codes and standards to be undertaken by certified external contractors.)
6	**Programme**	• Basic design • Means to maintain the operation of sprinkler systems • Different kinds of sprinkler systems (wet, dry, other water extinguishing systems) • Components • Operation • Problems with old systems • Introduction to applicable national codes and standards
7	**Related CFPA-E Guidelines**	
8	**Examination**	None
9	**Certificate – Diploma – Attest**	Attest Optional subtitle «Sprinkler Operator CFPA-E»
10	**Countries Running the Course**	• France (formation@cnpp.com, www.cnpp.com) • Germany (ischlosser@vds.de, www.vds.de) • UK (training@thefpa.co.uk, www.thefpa.co.uk)

1.29 Gas System Operator

1	**Duration**	2 days (14 hours)
2	**Aim**	The aim of this course is to give the necessary information for persons who are responsible for the operation and internal maintenance and end-user's inspection* of fire extinguishing systems using gaseous agents (short: gas extinguishing systems).
3	**Target Public**	Individuals responsible for gas extinguishing systems in their premises.
4	**Prerequisites**	Technician / technical background
5	**Objectives**	At the end of the course the students will be able to do the periodical internal inspections of the end-user (e.g. weekly; see rules for gas extinguishing systems) (* End user inspections should not be mistaken for the professional periodic in-spection/maintenance required by national codes and standards to be undertaken by certified external contractors.)
6	**Programme**	• Basic design • Different kinds of gas extinguishing systems (different gases, high and low pressure etc) • Components and systems • Characteristics of extinguishing gases (physical properties, extinguishing behaviour, personal safety aspects) • Personal safety • Operation • Requirements regarding protected enclosure (tightness; pressure relief) • Means to maintain the operational readiness • Regulations, applicable standards
7	**Related CFPA-E Guidelines**	None
8	**Examination**	None
9	**Certificate – Diploma – Attest**	Attest
10	**Countries Running the Course**	• Germany (ischlosser@vds.de, www.vds.de)

1.30 Fire Detection and Alarm Systems Operator

1	**Duration**	1 day
2	**Aim**	The aim of this course is to give the necessary information for persons who are responsible for the operation and internal end-user's inspection* of fire detection and alarm systems (FDAS).
3	**Target public**	Individuals responsible for FDAS in their premises.
4	**Prerequisites**	Technician recommended
5	**Objectives**	The student will be able to operate the FDAS and to do the periodical internal end user inspections* (e.g. weekly; see rules for FDAS). The student achieves the knowledge for evaluation of frame conditions for the FDAS. In addition to the training course, the student needs an instruction for operation of the FDAS by the company installing the FDAS with the aim • Handling of the installed FDAS • Knowledge of the necessary protection measures in case of deactivation or failure of the FDAS (* End user inspections should not be mistaken for the professional periodic inspection including function tests as required by national codes and standards which have to be undertaken by certified experts/companies only. Maintenance shall also be carried out only by certified experts/companies.)
6	**Programme**	• Regulations, applicable standards • Safety concept, alarm organisation, extent of surveillance • Basic design and functioning of control and indication equipment (CIE) • Fire brigade control panel, fire brigade indicator panel, fire brigade key deposit • Basic principles of fire protection installations • Examples of influences on the monitoring function of a FDAS • Functioning of automatic fire detectors • Basic principles of constructional fire protection • Application limits of the fire detectors and influences by the use of the area • External influences • Protection measures for hazard control in case of deactivation or failure • Operation • Means to maintain the operational readiness
7	**Related CFPA-E Guidelines**	None
8	**Examination**	None
9	**Certificate – Diploma – Attest**	Attest
10	**Countries Running the Course**	• Germany (ischlosser@vds.de, www.vds.de) • Portugal (secretario.geral@apsei.org.pt, www.apsei.org.pt) • Spain (mrodriguez@cepreven.com, www.cepreven.com) • Sweden (utbildning@svbf.se, www.brandskyddsforeningen.se)

1.31 Introduction to Thermography

1	**Duration**	3 days
2	**Aim**	The aim of the course is to provide the basic knowledge about non-contact temperature measurements including knowledge on measuring technology and physics of radiation.
3	**Target public**	Persons who intend to perform thermographic measurements.
4	**Prerequisites**	• Technical qualification which is at least equivalent to that of a trained electrician and • Training and education required under national legislation to be able to work on electrical installations • The participants have to bring their own thermographic equipment
5	**Objectives**	At the end of the course the student has the theoretical and practical knowledge to apply non-contact temperature measuring tech-niques.
6	**Programme**	• Basics of infrared thermography • Measuring equipment - techniques • Infrared-measuring technology • Background temperature • Emissions • Parameters of cameras • Heat and heat transfer • Practical exercises
7	**Related CFPA-E Guidelines**	None
8	**Examination**	None
9	**Certificate – Diploma – Attest**	Attest
10	**Countries Running the Course**	• France (formation@cnpp.com, www.cnpp.com) • Germany (ischlosser@vds.de, www.vds.de)

1.32 Certificated Security Manager

1	**Duration**	15 days
2	**Aim**	The aim of this course is to explore the areas of all the security elements, connected to a company or organisation and focus on the management issues.
3	**Target public**	Individuals responsible for an organisation of security, security managers, security advisers.
4	**Prerequisites**	Basic understanding and experience of practical security techniques and organisation.
5	**Objectives**	Upon successful completion of the course students will be able to establish and lead a security organisation. With in their own company, focus on the total picture fire and security risks.

6	**Programme**	• Risk management:
		  • Identification of risk
		  • Risk analysis
		  • Risk assessment
		  • Risk treatment and financing
		  • Operational risk control
		  • Responsibility and risk profiles
		  • Management of costs
		  • Work environment
		  • Environment security and responsibility
		  • Company responsibility and laws
		• Security:
		  • Basic security, locks, access control, alarm, video surveillances, safes
		  • Laws and regulations
		  • Security management
		  • Guard services
		  • IT security
		  • IT and information security
		  • Environment security and responsibility
		  • Total picture of security.
		• Fire prevention:
		  • Elements of fire
		  • Fire practical demonstration
		  • Laws and regulations
		  • Risk assessment
		  • Emergency plans, evacuation
		  • Fire fighting systems and equipment
		  • Fire inspections
		  • Disaster Recovery
		• Management:
		  • Security as a tool
		  • Management of an organisation
		  • Communication
		  • Crises management
		  • Feedback
		  • Personal plan of acts

7	**Related CFPA-E Guidelines**	• 1:2002 F; 4:2003 F; 19:2009 F

1.32 Certificated Security Manager

8	**Examination**	Written examination plus a case study management report presented in written or orally.
9	**Certificate – Diploma – Attest**	Certificate after each module: Risk management, Security, Fire prevention and Management. Diploma after examination. Optional subtitle «Certificated Security Manager CFPA-»
10	**Countries Running the Course**	• Denmark (info@dbi-net.dk, www.dbi-net.dk) • France (formation@cnpp.com, www.cnpp.com) • Switzerland (expertise.services@safetycenter.ch, www.safetycenter.ch)

1.33 Security: Management Cycle

1	**Duration**	5 days
2	**Aim**	The aim of this course is to explore further the areas covered in the Security: Technical Cycle but focusing on organisational and management issues.
3	**Target Public**	Individuals responsible for the organisation of security within their own and other organisations
4	**Prerequisites**	• Holder of the Security: Technical Cycle diploma • Or have passed an examination which demonstrates the same level of knowledge.
5	**Objectives**	Upon successful completion of the course students will able to manage complex security concepts within a coherent structure together with related safety requirements and associated financial issues.
6	**Programme**	• Laws • Management of staff / psychological items • Group work: analysis of risks and threat • Access control systems: extended functions • Security in communication and information systems • Management of costs • Security quality management • Benchmarking • Crises management, examples • Case study, group work
7	**Related CFPA-E Guidelines**	• 1:2002 F
8	**Examination**	Written examination plus a case study management report presented in writing or orally
9	**Certificate – Diploma – Attest**	Diploma Optional subtitle «Security Manager CFPA-E»
10	**Countries Running the Course**	• France (formation@cnpp.com, www.cnpp.com) • Germany (ischlosser@vds.de, www.vds.de) • Spain (mrodriguez@cepreven.com, www.cepreven.com) • Switzerland (expertise.services@safetycenter.ch, www.safetycenter.ch)

1.34 Security: Technical Cycle

1	**Duration**	5 days
2	**Aim**	To provide students with technical knowledge of security systems and techniques in industrial and commercial premises.
3	**Target Public**	Individuals responsible for the organisation of security matters in their own and other organisations
4	**Prerequisites**	Basic understanding or limited experience of practical security techniques and organization
5	**Objectives**	The student will able to develop and establish security arrangements for their own company and other organisations
6	**Programme**	• Laws • Analysis of weak points and threats • Perimeter protection • Mechanical protection • Cylinder, lock and lock furniture • Locking installations • Access control systems • Intruder alarm systems • Video systems • Group work: elaboration of a concept for mechanical and electronical • Guarding and security services, detectives • Security management • Group work: elaboration of a security concept
7	**Related CFPA-E Guidelines**	• 2:2007 F
8	**Examination**	Written examination plus a case study management report presented in writing or orally
9	**Certificate – Diploma – Attest**	Diploma Optional subtitle «Security Coordinator CFPA-E»
10	**Countries Running the Course**	• France (formation@cnpp.com, www.cnpp.com) • Germany (ischlosser@vds.de, www.vds.de) • Italy (isfop@networkaias.it, www.isfop.it) • Portugal (secretario.geral@apsei.org.pt, www.apsei.org.pt) • Spain (mrodriguez@cepreven.com, www.cepreven.com) • Switzerland (expertise.services@safetycenter.ch, www.safetycenter.ch)

1.35 Management of Key and Access Systems

1	**Duration**	1 day (7 hours)
2	**Aim**	The aim of this course is to provide the necessary information to persons who are involved in planning, administration and writing end-users specifications for key and access systems.
3	**Target Public**	Persons responsible for key and access systems in companies and authorities
4	**Prerequisites**	Basic knowledge of mechanical protection
5	**Objectives**	At the end of the course the students will • Understand function, structure and design of key and access systems • Be able to define necessary requirements of key and access systems • Develop invitations to bid • Control the realized design of installations • Be able to manage the keys and organize the documentation • Organize maintainance
6	**Programme**	1) Key and Access Systems 2) Standards applicable 3) Relevance of organisational needs and ranking of risks 4) Design and functionality 5) Types of key and access systems 6) Special locking functions 7) Equipment features 8) Planning of key and access systems 9) Planning examples in group work 10) Administration of key and access systems 11) Software programs 12) Documentation (Manufacturer/User) 13) Key security/process of legitimation a) Locking cylinders b) mortise locks and fittings c) special products with special functions for locking installations 14) Performance comparison between mechanical and so called electromechanical locking systems 15) Locking installation safety (possibilities of attack and manipulation)
7	**Related CFPA-E Guidelines**	• Guidance on Keyholder Selection and Duties (4:2010/S)
8	**Examination**	None
9	**Certificate – Diploma – Attest**	Attest
10	**Countries Running the Course**	• France (formation@cnpp.com, www.cnpp.com) • Germany (ischlosser@vds.de, www.vds.de) • Spain (mrodriguez@cepreven.com, www.cepreven.com)

1.36 Perimeter Protection Systems

1	**Duration**	2 days (2 x 9 units of 45 minutes)
2	**Aim**	In the course of this seminar the users are taught in detail the aspects of perimeter protection and detection which are described in common rules and recommendations. The knowledge which is substantial for the application is communicated. The participants learn about the components of perimeter protection and detection systems and are enabled to evaluate these on their effectiveness and usefulness – also under financial aspects. Knowledge on calls for tenders and planning examples complete the know-how earnings.
3	**Target Public**	• manufacturers and distributors • planer and installer of security techniques • responsible and charged persons for security in companies, organisations and authorities • security consultants and planners • employees of insurances • police authorities • private security companies
4	**Prerequisites**	Basic knowledge or experience in the field of electronic and mechanical security measurements are helpful.
5	**Objectives**	At the end of the course the students will have gained: • knowledge of the relevant Security guidelines for Perimeter • substantial knowledge for application of the guidelines as well as perimeter protection • knowledge about components of perimeter protection and detection systems • ability to evaluate the effectiveness and usefulness (also under financial aspects) of perimeter protection and detection systems • knowledge on calls for tenders and planning examples
6	**Programme**	• risk analysis – target definition – overview on measurements • compatibility of structural, physical and organisational and electronic measures • scope, definitions and sector concept • danger and risk analysis • structural-physical measures and barriers • signalling and detection systems • types of messages • activation and deactivation • connection to alarm management systems and intrusion detection techniques • organisational measures • system documentation and issues on interfaces • operation and maintenance • cost estimate on base of examples • case examples/implementation exercises
7	**Related CFPA-E Guidelines**	None
8	**Examination**	None
9	**Certificate – Diploma – Attest**	Attest
10	**Countries Running the Course**	• Germany (ischlosser@vds.de, www.vds.de)

1.37 Fire Investigation

1	**Duration**	5 days (40 hours)
2	**Aim**	To provide students with understanding on the process of fire investigation
3	**Target Public**	• Managers • Prevention officers • Policeman • Fireman • Ay other interested party
4	**Prerequisites**	Technical Cycle – Fire or equivalent qualification.
5	**Objectives**	The student will be able to understand the principles of fire investigation and to design a technical inspection for fire investigation activities. Course based on NFPA 921, Guidelines and National Approaches to Fire Investigation.
6	**Programme**	INTRODUCTION: • scope, purpose and application of fire investigation BASIC METHODOLOGY: • nature of fire investigations • systematic approach • relating fire investigation to the scientific method • basic method of a fire investigation • level of certainty • review and reporting procedures BASIC FIRE SCIENCE: • fire chemistry • products of combustion • fluid flows and heat transfer • fuel load, fuel packages, and properties of flames • ignition • flame spread and fire spread in a compartment • compartment fire development • fire spread between compartments and paths of smoke spread in buildings FIRE PATTERNS: • fire effects • fire patterns • fire pattern analysis BUILDING SYSTEMS: • features of design, construction, and structural elements in evaluating fire development • types of construction and construction assemblies ELECTRICITY AND FIRE: • will be provided statistical and general culture information. BUILDING FUEL GAS SYSTEMS: • will be provided statistical and general culture information.

1.37 Fire Investigation

6	**Programme**	FIRE-RELATED HUMAN BEHAVIOUR: • history of research, general considerations of human responses to: fires, factors related to fire initiation, children and fire, incendiary fires, human factors related to fire spread, recognition and response to fires PLANNING THE INVESTIGATION: • Basic incident information INVESTIGATION DOCUMENTATION: • Reports PHYSICAL EVIDENCE: • basic concepts ORIGIN DETERMINATION: • data analysis, • developing an origin hypothesis, • testing of origin hypotheses • final hypothesis selection • origin insufficiently defined FIRE CAUSE DETERMINATION: • data analysis, • developing a cause hypothesis • testing the cause hypothesis • final hypothesis selection ANALYZING THE INCIDENT FOR CAUSE AND RESPONSIBILITY: • fire or explosion causes • cause of damage to property resulting from the incident • cause of bodily injury or loss of life • determining responsibility EXPLOSIONS: • general concepts; types of explosions; characterization of explosion damage; effects of explosions INCENDIARY FIRES: • general concepts; incendiary fire indicators; potential indicators not directly related to combustion; other evidentiary factors FIRE AND EXPLOSION DEATHS AND INJURIES: • General concepts APPLIANCES: • statistics about common residential appliances MANAGEMENT OF COMPLEX INVESTIGATIONS: • hints

1.37 Fire Investigation

7	**Related CFPA-E Guidelines**	Arson Document (01:2010/S)
8	**Examination**	Minimum – written examination
9	**Certificate – Diploma – Attest**	Certificate
10	**Countries Running the Course**	• Italy (isfop@networkaias.it, www.isfop.it) • France (formation@cnpp.com, www.cnpp.com) • Spain (mrodriguez@cepreven.com, www.cepreven.com)

1.38 Physical Security Techniques

1	**Duration**	3 days
2	**Aim**	The aim of this course is to give the participants a basic understanding of the elements and components of physical security techniques, conditions and impressions of intruder attacks, instruments and methods of attacks. This underpins the understanding of the possibilities and efficacy of integrated solutions of physical security techniques (necessary to meet the conclusions of the risk assessment) on the one hand and worthwhile, effective cost-efficient retrofitting techniques on the other hand. Knowledge of calls for tenders and planning examples is also addressed. Finally the ranking of mechanical security techniques within the physical security management concept will be evaluated.
3	**Target Public**	Individuals that need basic understanding of physical security systems e.g. • responsible and nominated persons for security in companies, or-ganisations and authorities • security consultants and planners • employees of insurers • police authorities • private security companies The course can also be used as an introductory course for new staff members at manufacturers, distributors and installers of security techniques
4	**Prerequisites**	None
5	**Objectives**	At the end of the course the students will have gained basic knowledge of: • elements and components of physical security techniques • effective and cost-efficient retrofitting techniques • guidelines of mechanical security techniques • the application of rules and guidelines • evaluating the efficacy (including financial aspects) of physical se-curity techniques • relevant aspects of calls for tenders and planning examples • the ranking of intruder alarm systems in security management
6	**Programme**	• burglar resistant security glass, windows, doors, wall sections • locking cylinders, locks and fittings • locking installations and emergency escape doors • methods of intrusion and burglary, prevention capabilities by the police, relevance of risk analysis and assessment • basic aspects of the technique of consolidation and fixation • best practice of planning and installation of physical security tech-niques • examples of planning physical security • special, tailored solutions for retrofitting techniques
7	**Related CFPA-E Guidelines**	None
8	**Examination**	None
9	**Certificate – Diploma – Attest**	Attest
10	**Countries Running the Course**	• Germany (ischlosser@vds.de, www.vds.de)

1.39 CCTV Systems

1	**Duration**	3 days
2	**Aim**	This training course covers in detail the requirements and conditions of CCTV systems. These basics provide knowledge and understanding of the technical components and functionality of video systems linked with common rules and recommendations. As a result, the participants will gain confidence in the application of knowledge necessary to meet the conclusions of the risk assessment. A methodology is given for rating of the efficacy of video surveillance systems. Knowledge of calls for tenders and planning examples is also included. Finally the course will make reference to relevant legislation in combination with (personal) data protection.
3	**Target Public**	• manufacturers and distributors • planners and installers of security techniques • appointed responsible person for security in companies, organisa-tions and authorities • security consultants and planners • employees of insurers • police authorities • private security companies
4	**Prerequisites**	Basic knowledge or experience in the field of electronic security measures are helpful.
5	**Objectives**	• introduction into video surveillance technology • layout of video surveillance systems • elements, components and systems of video technology • application, function and selection criteria for technology and transmission types to be applied in security companies using video techniques • technical planning and design using case studies • relevant standards on video surveillance technology • planning and installation from the perspective of national Guide-lines and regulations and standard series EN 50132/IEC 62676 • recommendations on installation, commissioning and mainte-nance
6	**Programme**	Basic knowledge or experience in the field of electronic security measures are helpful.
7	**Related CFPA-E Guide-lines**	None
8	**Examination**	None
9	**Certificate – Diploma – Attest**	Attest
10	**Countries Running the Course**	• Germany (ischlosser@vds.de, www.vds.de)

1.40 Intruder Alarm Systems

1	**Duration**	3 days
2	**Aim**	The aim of this course is to give the participants a basic understanding of intruder alarm techniques. In addition general requirements and con-ditions of intruder alarm systems are covered. The gained knowledge is fundamental to the understanding and/or planning of intruder alarm systems necessary to meet the conclusions of the risk assessment. Knowledge of calls for tenders and planning examples complete the course. Finally the ranking of intruder alarm systems in security management is evaluated.
3	**Target Public**	Individuals that need basic understanding of intruder alarm system, e.g. • Appointed responsible persons for security in companies, organisa-tions and authorities • security consultants and planners • employees of insurances • police authorities • private security companies The course can also be used as an introductory course for new staff members of manufacturers, distributors and installers of security techniques
4	**Prerequisites**	None
5	**Objectives**	At the end of the course the students will have gained basic knowledge of: • the relevant intrusion methods and techniques, relevance of risk analysis and assessment • materials and products used in physical security • the necessities of intruder alarm techniques • guidelines for intruder alarm systems • components of intruder alarm systems • application of rules and guidelines • evaluating the efficacy (including consideration of financial as-pects) of intruder alarm systems • relevant aspects for calls for tenders and planning examples • the ranking of intrusion alarm systems in security management
6	**Programme**	• intrusion and burglary: facts, methods, techniques and instruments of attackers • material and constructional security measures • requirements and guidelines for intruder alarm systems • classification system for intruder alarm systems • setting/unsetting of intruder alarm systems and intervention • specifics of radio linked intrusion alarm systems • false alarms and possibilities of optimization • components, technical elements and systems of intruder alarm technique • planning example of using intruder alarm systems • basics of intruder alarm systems in the concept of security man-agement
7	**Related CFPA-E Guidelines**	None
8	**Examination**	None
9	**Certificate – Diploma – Attest**	Attest
10	**Countries Running the Course**	• Germany (ischlosser@vds.de, www.vds.de)

1.41 Smoke and Heat Exhaust Systems Operator

1	**Duration**	1 day
2	**Aim**	The aim of this course is to give the necessary information for persons who are responsible for the operation and internal end-user's inspection* of natural smoke and heat exhaust systems (SHEVS).
3	**Target Public**	Individuals responsible for SHEVS in their premises.
4	**Prerequisites**	Technician recommended
5	**Objectives**	The student will be able to operate the SHEVS and to do the periodical internal end user inspections* (e.g. weekly; see rules for SHEVS). The student achieves the knowledge for evaluation of frame conditions for the SHEVS. In addition to the training course, the student needs an instruction for operation of the SHEVS by the company installing the SHEVS with the aim • Handling of the installed SHEVS • Knowledge of the necessary protection measures in case of deactivation or failure of the SHEVS (* End user inspections should not be mistaken for the professional periodic inspection including function tests as required by national codes and standards which have to be undertaken by certified experts/companies only. Maintenance shall also be carried out only by certified experts/companies.)
6	**Programme**	• Regulations, applicable standards • Protection aims and possible applications • Basic design and functioning principles including relevance of fire load, smoke sections and incoming air • Components and systems • Operation • Means to maintain the operational readiness, end-user inspection
7	**Related CFPA-E Guidelines**	None
8	**Examination**	None
9	**Certificate – Diploma – Attest**	Attest
10	**Countries Running the Course**	• Germany (ischlosser@vds.de, www.vds.de) • Spain (mrodriguez@cepreven.com, www.cepreven.com) • Switzerland (expertise.services@safetycenter.ch, www.safetycenter.ch)

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- Italy (isfop@networkaias.it, www.isfop.it)
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