

## 1.17 Fire Safety in Transformation Facilities

1	<b>Duration</b>	2 days (14 hours)		
2	<b>Aim</b>	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	<b>Target Public</b>	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	<b>Prerequisites</b>	Electrical Technician		
5	<b>Objectives</b>	<p>At the end of the course the students will:</p> <ul style="list-style-type: none"> <li>• Recognise and identify the main hazards associated with fire safety in Transformation Facilities</li> <li>• Know the different types of Fire Prevention Measures</li> <li>• Know the specific regulations and standards related to Transformation Facilities</li> <li>• Have a good understanding of the different types of fire safety systems and equipment available and requirements for their testing and maintenance</li> <li>• Have a good understanding of the emergency and protection plans</li> <li>• Be aware of the behaviour of fire in compartmented and non compartmented structures</li> </ul>		
6	<b>Programme</b>	I	LEGISLATION	<ul style="list-style-type: none"> <li>• Relevant fire safety legislation in transformation facilities</li> </ul>
		II	IDENTIFICATION OF HAZARDS	<ul style="list-style-type: none"> <li>• Indoor Transformation Facilities</li> <li>• Outdoor Transformation Facilities</li> <li>• Cable Galleries</li> </ul>
		III	FIRE PREVENTION MEASURES	<ul style="list-style-type: none"> <li>• Switches</li> <li>• Conductors</li> <li>• Electrical Connections</li> <li>• Live Parts</li> <li>• Transformers</li> </ul>
		IV	FIRE PROTECTION MEASURES	<ul style="list-style-type: none"> <li>• Passive Fire Protection: <ul style="list-style-type: none"> <li>• Fire rating of walls and doors</li> <li>• Compartment Size</li> <li>• Sealed of penetrations</li> <li>• Oil spilled drainage or containment</li> </ul> </li> <li>• Active Fire Protection: <ul style="list-style-type: none"> <li>• Fire Detection Systems (aspiration, temperature cable detectors smoke detector)</li> <li>• Fire Extinguishing Systems (water mist, water spray, foam-water, gases)</li> <li>• Communications of alarm</li> </ul> </li> <li>• Evacuation: <ul style="list-style-type: none"> <li>• Maximum Distance between exits</li> <li>• Requirements for stairs</li> <li>• Signalization</li> <li>• Emergency Lighting</li> <li>• Ventilation</li> </ul> </li> </ul>
		V	PERIODICAL INSPECTIONS AND MAINTENANCE	<ul style="list-style-type: none"> <li>• Cable insulation integrity, thermography, cable connections, ventilation</li> </ul>

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7	<b>Related CFPA-E Guidelines</b>	• 3: 2011
8	<b>Examination</b>	Written examination
9	<b>Certificate - Diploma - Attest</b>	Certificate Optional subtitle «Fire Safety Officer of Transformation Facilities CFPA-E»
10	<b>Countries Running the Course</b>	• Spain (mrodriguez@cepreven.com, www.cepreven.com)
11	<b>Guidance Notes</b>	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 .