



Technical Training on EN 45545-2 and EN 45545-3

The 5 Ws (who, what, when, where, why) of EN 45545

INTRODUCTION

CREPIM - France is a world's leading fire testing labs, ISO CEI 17025 accredited by COFRAC (eq to NABL) and recognized by CERTIFER.

TRAINING MATERIAL

Each trainee will be provided with complete set of training material.

The training will be supported by alternative and intensive video sessions, to reinforce the knowledge appropriation.

After the training, an assessment of the acquired knowledges will be organized.

Organization will also propose few actions points for the trainees.

DURATION

The training will be conducted **for 2 (two) days.**

DATE AND LOCATION

26 and 27 th of April 2019 - The specific location in Delhi will be intimated later.

COST

The fees for attending the training course will be **Rs .25 000 per candidate**. There will be discount of 10% if 3 (three) or more participants from same company. Fees will be payable in advance as per following bank details.

CONTACT

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Interested? Feel free to fill up the participation form!!!

OBJECTIVES OF THE TRAINING

- To turn over **a global picture** of the EN 45545 framework.
- To illustrate EN 45545-2 & 3 requirements by applicable cases studies.
- To get the know how to be quickly operational on the EN 45545-2 & 3 issues.

ISSUES ADDRESSED

Indian Railways has decided to adopt and to deploy the fire safety standard EN 45545-2 to all railway interiors. This training aims to address the key aspects of the **EN 45545-2 standards and to explore:**

- The deployment strategy of the EN 45545 series,
- The key aspects of the fire in term of reaction to fire (**EN 45545-2**) and fire resistance (**EN 45545-3**),
- The complete and detailed review of EN 45545 series,
 - a. Review of the EN 45545 **part 1**,
 - b. Review of the EN 45545 **part 2**,
 - c. Review of the EN 45545 **part 3**,
- The new measurements applied to materials and seats: the heat release.

SYLLABUS OF TRAINING

- Overview of EN 45545 standards: parts 1 to 7.
- **EN 45545-1 review:**
 - Fire safety objectives and Fire scenarios,
 - Hazard level (HL) definition versus **Operation category** and **Design category** of the rolling stock,
- **EN 45545-2 and A, B, C Annexes:**
 - Review of the **26 requirements**, and hierarchization,
 - Main **ISO tests review** (ISO 565-28, ISO 5660, ISO 9239-2, ISO 5659-2) regarding Spread of Flame (F), Ignitability (I), Rate of Heat Release (R), Smoke opacity and toxicity (S and T),
 - Analyze of the tryptic Requirement/ISO test/HL,
 - Comparison with national railway standards NF F 16-101, NFPA 130,
 - **Review of key differences et key convergences** in term of heat fluxes, thermal attacks and fire scenarios.
- **EN 45545-3 review:**
 - Fire Resistance approach (EI), and review of the main area concerned.

CRITICAL POINTS REVIEW

- **EN 45545-1:** HLs review
- **EN 45545-2 :**
 - Focus on **key specifications**: test range, color, painted pieces...
 - How to deal **with complex materials**, multilayers and composites,
 - How to manage **the grouping rules** for electro-technical materials,
 - **EI 15 electrical cabinet** and impact of fire test strategy.



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Inscription form

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Name:

Position:

Company Name:

Company Address:

E-mail:

Mobil phone :

Number of applicants:

Cost: Rs: 25 000 X participants = Rs

Date :

Signature