



Technical Training on EN 45 545-1, -2 and-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

17th and 18th of March 2020 at India International Centre, Delhi

COST

The fees for attending the training course will be **Rs. 25,000 per candidate (+GST @ 18%)**. 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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Visit us to <http://www.aetherengg.com>

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 & metro 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, review of the parts 1 to 7, **with a focus on part 1, 2 and 3,**
- The new parameters applied to materials and seats: the heat release, smoke opacity.

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/Hazard Level,
 - 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,
- How to deal with items located in an electrical cabinet and impact of fire test strategy.

REGISTRATION FORM

Technical Training on EN 45 545-2 and EN 45545-3

Date: 17th & 18th March 2020 | Venue: India International Centre, Delhi

ORGANISED BY



Name (in CAPS) : _____ Mr/ Ms: _____

Designation: _____ Organisation _____

Contact Address: _____

City: _____ Pin: _____ Ph: _____

Mob: _____ Email: _____

Details of Cheque / Draft / NEFT: _____ Amount Rs. _____

Date: _____ Signature of the Applicant _____

- Course Fee: ₹ 25000/- + GST @ 18%
- 10% Discount would be extended if there are 3 or more participants from one organization.
- Cheque / DD should be drawn in favour of " AETHER ENGINEERING SOLUTIONS PVT LTD " payable at Delhi.

Payment can also be made by bank transfer:

Beneficiary: AETHER ENGINEERING SOLUTIONS PVT LTD
Account No: 517701010051415 | Bank Name: UNION BANK OF INDIA | Account type: Current
IFSC CODE: UBIN0551775
GST No: 07AAHCA7063R1Z1 | PAN No: AAHCA7063R

Mail this form to:

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