

Module aREB1

aelēc Electrical Risk B1

aelēc Riesgo Eléctrico B1
aREB1 (5h)



Aim: Train workers whose non-electrical activities are carried out in low-voltage installations so that they understand electrical risks and are able to apply appropriate preventive measures, especially in work without voltage. Students will learn to identify safe areas and comply with the 5 Golden Rules in accordance with RD 614/2001.

PROGRAM: aelēc Electrical Risk B1

1. General information on electrical risk
 - 1.1 General aspects of electrical installations
 - 1.2 R.D. 614/2001: Art. 4. Work techniques and procedures
 - 1.3 Types of electrical accidents
 - 1.4 Work on de-energized circuits
 - 1.5 Work on de-energized circuits
 - 1.6 Safety conditions for applying the five Golden Rules in a protected area
 - 1.7 Safety conditions for applying the five Golden Rules in a work area
 - 1.8 Action to be taken when power needs to be restored
2. Disclaimers
 - 2.1 Process and roles of participants
3. Introduction to live working in the live working area
 - 3.1 Work under tension
4. Work in the vicinity
 - 4.1 General considerations. Preventive measures
5. Measurements, tests, and verifications
 - 5.1 Equipment and methods of use
 - 5.2 General considerations for electrical risk prevention.
6. Conditions, standards, and organizational process for maneuvers
 - 6.1 Remote or remote-controlled operations
7. Introduction to local maneuvers
 - 7.1 Order of operation of switching devices
 - 7.2 Indications and signage
 - 7.3 Locks and interlocks
8. Work in potentially hazardous atmospheres
 - 8.1 Classification of areas
 - 8.2 Devices for detecting, measuring, and controlling hazardous atmospheres
9. Main elements of the installations and their identification
 - 9.1 Conductors
 - 9.2 Insulators
 - 9.3 Supports
 - 9.4 Braided networks
 - 9.5 Service lines
 - 9.6 Splices
 - 9.7 Underground networks
 - 9.8 CGP
 - 9.9 Meter centralization
10. Five Golden Rules in LV
 - 10.1 Isolation of the intervention area
 - 10.2 VAT and distances to live parts
 - 10.3 Signaling
 - 10.4 Delimitation
11. PPE and CPE commonly used in LV work
 - 11.1 Helmet and face shield
 - 11.2 Fireproof, insulating, and mechanical gloves

- 11.3 Fireproof clothing
- 11.4 Bench and mat
- 11.5 Vinyl fabric
12. Most common risks in LV work and typical accidents
13. Practical exercise
14. Actions to be taken
 - 14.1 Cell
 - 14.2 Electrical panel

aREB1 Module aelēc Electrical Risk B1

Duration: 5 hours (1 day)

aREB1 program: Sections 1 to 14

Maximum students: 12 people per Edition

Certificate validity:

3 years

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