



49, RUE DE LA BIENFAISANCE - 94300 VINCENNES - FRANCE

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Training Q1

Initial training program according to Qualifoudre (2 days) : to obtain the level 1 Qualifoudre

According to Qualifoudre framework: *an initial training lasting 2 days (12 hours), to be followed by each person for whom the organization wishes certification.*

1. Lightning: generalities (IEC 62305 - 1)
2. Effects of lightning
3. Regulatory context
4. Qualification scheme: Qualifoudre
5. Introduction to the Lightning Risk Analysis:
 - Why do an analysis?
 - What result to expect?
 - Example analysis on a simple case (AFNOR FD 17 - 108)
6. Different kinds of Lightning protection system (IEC 62305 - 3):
 - Isolated systems
 - Systems not isolated
7. Capture:
 - Mesh System
 - Stretched wires
 - Lightning Rods
 - Natural components
8. Downconductors:
 - copper, aluminum, steel
 - natural components
 - insulated cables
9. Earthing system:
 - type A and type B
 - earth resistance and impedance
10. Protection of persons
11. Prevention of lightning risk
12. Components: IEC 62561 standards
13. Distance of separation: use
14. Equipotentiality
15. Type 1 Surge Protective Devices (IEC 62305 - 4, IEC 61643 - 12 and 22)
16. Type 2 Surge Protective Device
17. Earthing resistance measurement
18. What to check on a Lightning Protection System?

Assessment of achievements (MCQ)