Código do curso: 16-34777

QET - Treinamento Elétrico Qualificado

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QET – Treinamento Elétrico Qualificado é um curso de dois dias baseado na norma EN 50110-1 que desenvolve o conhecimento em segurança elétrica e métodos práticos de segurança necessários para acessar e trabalhar em painéis elétricos com segurança. Os participantes aprendem a reconhecer riscos elétricos, selecionar equipamentos de proteção adequados e instrumentos de teste, planejar e realizar medições permitidas e resolução de problemas com segurança, verificar a ausência de tensão e entender a aplicação do LOTO. O QET é um treinamento de segurança, não uma qualificação de eletricista nem uma autorização independente para realizar trabalhos elétricos; o papel aplicável, competência, supervisão e as regras do empregador/local determinam o que cada participante pode fazer.

Informações essenciais

Pré-requisitos
Participants should have a relevant technical background appropriate to their assigned tasks. The employer must determine the person's instructed or skilled competence status, supervision requirements, task-specific competence and authorisation. QET does not replace electrician qualifications or any statutory or site-specific authorisation.

Para quem é?
Technicians and technical personnel, including instructed persons and electrically skilled persons, who require electrical safety competence for controlled access to electrical cabinets and for tasks such as permitted measurements, troubleshooting and participation in electrical isolation and LOTO activities within their assigned scope.

Avaliação
Final written test. Participants must achieve at least 80% correct answers to pass.

Certificação
Upon successful completion you will receive a certificate valid for two years

Course content

- **Introduction**
  Introduction to electrical safety, incidents and responsibilities
- **EN 50110-1**
  EN 50110-1 safety principles; instructed and skilled persons; competence, supervision and authorisation
- **Electrical Hazards**
  Electric shock, arc flash, approach boundaries and hazardous/stored energy
- **PPE & Test Equipment**
  Electrical PPE, insulated tools, and selection of suitable test equipment.
- **Safe Cabinet Access**
  Precautionary techniques and safe access to electrical cabinets.
- **Electrical Work Categories**
  Types of electrical work and conditions for permitted measurement and fault-finding activities.

- **Safe Isolation & LOTO**
  Establishing an electrically safe work condition and lockout/tagout (LOTO) principles and devices.
- **Absence of Voltage Verification**
  Verifying absence of voltage and applying the test-measure-test instrument proving method.
- **Planning & Emergency Response**
  Job planning, risk assessment, stop-work decisions, and electrical incident response.
- **Knowledge Assessment**
  Written knowledge assessment requiring a minimum of 80% correct answers.

Key Learning Objectives

01 LO1 — Recognise electrical hazards, including electric shock, arc flash, unexpected energisation and stored electrical energy.

02 LO2 — Explain the relevant EN 50110-1 safety principles and distinguish instructed persons from electrically skilled persons, including the limits of their roles and authorisation.

03 LO3 — Assess electrical risks and identify the precautions required before opening or approaching electrical cabinets.

04 LO4 — Select appropriate electrical PPE, insulated tools and suitably rated test instruments for an authorised task.

05 LO5 — Explain safe measurement and troubleshooting practices, including test–measure–test (proving the tester before and after use).

06 LO6 — Describe and, where permitted and supervised, demonstrate verification of absence of voltage using appropriate methods and equipment.

07 LO7 — Explain and practise the safe use of LOTO devices and procedures, including identification of isolation points, stored energy and verification.

08 LO8 — Recognise approach boundaries and the difference between working dead, working live and working in the vicinity of live parts.

09 LO9 — Plan safe work, stop when conditions change and respond appropriately to electrical incidents.