

Module *STTE*

Solar Technical Training Electrical

Solar Technical Training Electrical
STTE (8h)



GLOBAL WIND
ORGANISATION

Aim: The aim of this S-TT Electrical Module is to give the participants the knowledge and skills to carry out basic electrical tasks (supervised by an experienced technician), using safe working procedures and the correct PPE.

PROGRAM: STTE Solar Technical Training Electrical

1. Introduction to the training
2. Introduction to electricity
 - 2.1 Direct current
 - 2.2 Ohm's law and Watts Law
 - 2.3 Kirchoff's Law
 - 2.4 Alternating current
 - 2.5 Alternating current/direct current
3. Electrical safety
 - 3.1 Why electrical safety?
 - 3.2 Low/high voltage
 - 3.3 PE and GFCI/RCD
 - 3.4 Stored energy
 - 3.5 Static electricity
 - 3.6 Safety signs
 - 3.7 Types of PPE
 - 3.8 The importance of appropriate isolation
4. Electrical components and sensors
 - 4.1 Resistors
 - 4.2 Batteries
 - 4.3 Switches
 - 4.4 Contactors
 - 4.5 Relays
 - 4.6 Diodes
 - 4.7 Bridge rectifiers
 - 4.8 Capacitors
 - 4.9 Transformers
 - 4.10 Motors
 - 4.11 Fuses and circuit breakers
 - 4.12 Power control systems
 - 4.13 Introduction to sensors
 - 4.14 Application of sensors
5. Electrical measuring instruments
 - 5.1 Symbols and settings on electrical instruments
 - 5.2 How to measure with electrical measuring instruments
 - 5.3 Measuring points
6. Electrical circuits
 - 6.1 Symbols and diagrams
 - 6.2 Assembly of an electrical circuit
7. Cooling system
 - 7.1 Inspection and function of the cooling system
8. Summary and theoretical test
 - 8.1 Summary
 - 8.2 Theoretical test
9. Training review

STTE Module (Solar Technical Training Electrical)

Duration: 8h (1 day)
STTE Program : Sections 1 to 9
Maximum students: 12 people per Edition.
Prerequisites: -
Certificate validity: Permanent if actively working in a photovoltaic installation environment

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