

**Course Title:** **ELECTRICAL MAINTENANCE OF CARAVAN HOLIDAY HOMES – INTERMEDIATE LEVEL**

Inspection, Testing and Documentation of Caravan Holiday Homes for compliance with BS 7671:2008 + A3:2015

**Category of candidate:** Persons completing the course for Electrical Maintenance on Parks – NCC Foundation Level or SkillsActive-CITO Electrical Maintenance on Parks or those persons who, through appropriate prior learning or experience, can satisfy the NCC Training Academy that they are eligible for this intermediate level course.

**Course Aim:** To provide a course of training for selected persons in the skills and knowledge to achieve the standards of competence necessary to carry out work safely when inspecting and testing electrical installations in caravan holiday homes. Further, to provide a translation of the current Acts, Regulations and Standards, for promoting electrical safety; and the duty imposed on a person to work safely while at work.

**Entry requirements:** That selected persons have prior knowledge, through training and / or experience of the following subjects –

- Current electricity:
  - AC
  - DC
  - Low voltage (LV)
  - Extra-low voltage (ELV)
- LV systems to caravan holiday homes
  - TN
  - TT
- Electrical terms and relationships:
  - Potential (volts)
  - Current (amps)
  - Resistance (ohms)
  - Power (watts)
  - Basic Ohm's Law
- Cables and conductors in caravan holiday homes:
  - Conductors and insulators
  - Fixed cables
  - Flexible cables
  - Cable management systems
- Circuit conditions:
  - Open circuit
  - Closed circuit
  - Short circuit
- Circuit types for caravan holiday homes:
  - Radial
  - Ring
  - Lighting
  - Power
- Circuit protection in caravan holiday homes:
  - Circuit breakers
  - Fuses
  - RCDs

**Course content:**

- Acts and Regulations covering electrical work
- Create and maintain a system of work
- Bonding and earthing arrangements
- Isolation and proving dead
- Documentation:
  - Electrical Installation Certificate

- Minor Electrical Installation Works Certificate
- Electrical Installation Condition Report
  - Report
  - Schedule of inspections
  - Schedule of Test results
- The inspection process
- Practical inspection of electrical installations in caravan holiday homes:
  - Inspection by instruction
  - Inspection under supervision
  - Inspection by assessment
- The testing process
- Test instruments and the safe use of instruments
- Instrument parameters and units
- Electrical testing:
  - Dead tests
  - Live tests
- Define the process of electrical testing
- Practical testing:
  - Continuity of protective conductors, including bonding
  - Continuity of ring final circuit conductors
  - Polarity
  - Insulation resistance
  - Voltage tests
  - Earth fault loop impedance:
    - External tests ( $Z_e$ )
    - System tests ( $Z_s$ )
  - RCD tests
- Practical testing of electrical installations in caravan holiday homes (under guidance\*):
  - Testing by instruction
  - Testing under supervision
  - Testing by assessment
- Completion of the Electrical Installation Condition Report
  - Completion by instruction
  - Completion under supervision
  - Completion by assessment

**\*NOTE**

Under guidance means the trainee will be under the guidance of the course trainer for all practical tasks.

Practical testing of a caravan holiday home (practice)  
Practical testing of a caravan holiday home (under examination)

**Assessment:** Continuous assessment through in-course question / answer sessions, and practical assessment of competence to safely carry out electrical inspection and testing, and maintenance of a safe system of work.

**Course Details:** The course details are comprehensive with emphasis on the practicalities of inspection and testing. Time will be given to the study of documentation; when documents are to be issued and which documents to issue. Practical inspection and testing work will be carried out on site and test results processed to satisfy statutory obligations.

**Course Duration:** 32 hours (4-day session)