



## Candidate Self-Assessment Checklist



### Candidate Information

You are about to undertake the AM2 Assessment of Occupational Competence.

The AM2 Electrotechnical Assessment of Occupational Competence is designed for individuals who wish to practise either as an electrician or as a maintenance electrician. It demonstrates that they have the level of competence expected by the industry in the following key occupational areas:

- Risk assessments and health and safety.
- Safe isolation.
- The interpretation of specifications, drawings and diagrams.
- Planning and preparing to install, terminate and connect identified wiring systems.
- Installing, terminating and connecting identified wiring systems.
- Inspection, testing and certification.
- Fault diagnosis and correction of electrical faults.
- The understanding and application of industry recognised procedures, working practices and the requirements of statutory and non-statutory regulations.

In accordance with the installation specification and the relevant statutory and non-statutory regulations you will be expected to install, terminate, connect, inspect, test and commission:

- A three-phase distribution board and sub-circuit
- A three-phase Direct-on-Line Motor circuit
- Single phase lighting and power circuits
- A central heating/sustainable energy system
- A safety services circuit and device
- A data-cabling system

The assessment is in four sections:

Section A and A1 – Safe Isolation and Risk Assessment; Composite Installation

Section B – Inspection and Testing of the completed composite installation

Section C – Fault Diagnosis and Correction

Section D – Assessment of Applied Knowledge

## Section A1: Safe Isolation and Risk Assessment (1 Hour)

### Section A: Composite Installation (8.5 Hours)

This section has areas where candidates will need to demonstrate occupational competence in accordance with statutory and non-statutory regulations and approved industry working practices. The areas are:

- 1 Risk assessment and safe-isolation.
- 2 Interpretation of specifications and technical data.
- 3 Selection of protective devices.
- 4 Install protective equipotential bonding.
- 5 Installing and terminating pvc singles cable.
- 6 Installing and terminating pvc/pvc multi-core & cpc cable.
- 7 Installing and terminating SY multi-flex cable.
- 8 Installing and terminating heat-resistant flex.
- 9 Installing and terminating XLPE SWA.
- 10 Installing and terminating data-cable.
- 11 Installing and terminating FP200 type cable.

Please tick the appropriate boxes.

I have knowledge/experience of:	I have little or no knowledge/experience of:
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Candidates will be expected to install the following:

- 1 Protective devices in a TP&N distribution board.
- 2 A two-way and intermediate lighting circuit in PVC/PVC multi-core cable.
- 3 A BS 1363 13A socket outlet ring circuit in PVC singles cable
- 4 A carbon monoxide detector safety service circuit in FP200 type cable.
- 5 Data outlets circuit in Cat. 5 cable.
- 6 A BS EN 60309 16A T P & N socket outlet in XLPE SWA cable.
- 7 Protective equipotential bonding to gas and water services.
- 8 A 3-phase direct on line motor/starter circuit in SY cable.
- 9 An S Plan central heating and hot water system with a solar thermal sustainable energy element utilising heat resistant flexible cable and PVC singles cable.

I have knowledge/experience of:	I have little or no knowledge/experience of:
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## Section B: Inspection and Testing of the Composite Installation (3.5 hours)

To demonstrate occupational competence candidates will be expected to:

- Undertake an assessment of risk and work according to best practise as required by Health and Safety legislation.
- Ensure the installation is correctly isolated before commencing the inspection and test activity.
- Carry out a visual inspection of the installation in accordance with BS 7671 and IEE Guidance Note 3.
- Complete the following tests on the installation in accordance with BS 7671 and IEE Guidance Note 3:
  - Continuity of protective conductors
  - Continuity of ring final circuit conductors
  - Insulation resistance
  - Polarity
  - Earth fault-loop impedance (EFLI)
  - Prospective fault current (PFC)
  - Functional testing
- Candidates will be required to verify that the test results obtained conform to the values required by BS 7671 and IEE Guidance Note 3.
- Complete an electrical installation certificate, schedule of inspections and schedule of test results using the model forms as illustrated in Appendix 6 of BS 7671.

You will be expected to follow practices and procedures that take into account electrically sensitive equipment.

I have knowledge/experience of:	I have little or no knowledge/experience of:
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## Section C: Fault Diagnosis (2.5 hours)

To demonstrate occupational competence candidates will be expected to:

- Undertake an assessment of risk.
- Correctly identify and use tools, equipment and test instruments that are fit for purpose.
- Carry out checks and preparations that must be completed prior to undertaking fault diagnosis.
- Carry out safe isolation in the correct sequence.
- Identify faults from 'fault symptom' information given by the examiner.
- State and record how the identified faults can be rectified.

## Section D: Assessment of Applied Knowledge (1 hour)

Candidates will be assessed on their application of knowledge associated with:

- Hand tool use and care
- Health and Safety
- BS 7671: Requirements for Electrical Installations
- Building Regulations
- Installation techniques
- Motors control and overload protection
- Control Systems – sustainable energy system
- Overload and Short-circuit protection
- Inspection, Testing and Fault Finding

**The assessment will last for one hour and be in the form of a computerised multiple choice test. Candidates will be expected to answer 30 questions and achieve a minimum pass mark of 70% (21 correct answers).**

Having completed this self-assessment checklist, detail those areas where you believe you require additional training before undertaking the AM2 Assessment of Occupational Competence. Use the checklist to summarise your additional training requirements.

Once completed, arrange a meeting with your employer and/or training provider to review the self-assessment checklist (**take this document with you**). If there are areas of concern produce an action plan to help you achieve the required standard.

**Take this completed document with you when you go to the AM2 centre to undertake your AM2 Assessment.**

I will require further training/knowledge to be competent in:

	Achieved
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**Required Signatures**

Candidate: .....

Print Name: .....

Employer: .....

Print Name: .....

Training Provider Representative: .....

Print Name: .....

Contact NET at:

National Electrotechnical Training (NET)  
ESCA House  
34 Palace Court  
London  
W2 4HY

Tel: 0845 241 6858  
[www.netservices.org.uk](http://www.netservices.org.uk)

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