



Readiness for Assessment: Candidate Self-Assessment Checklist

AM2
**(Electrotechnical
Apprenticeship
Framework/Mature
Candidate Assessment)**

To be completed by candidate, employer and training provider

Candidate Name: _____
NI Number*: _____
Candidate ULN (Unique Learner Number): _____

*or PPS/Social Security number for candidates from Channel Islands/ROI

By the industry, for the industry



January 2020

Important Information

Completing this checklist is a compulsory part of the AM2 assessment preparation. It helps all parties to thoroughly review whether an individual has the required knowledge and experience to undertake the test. If gaps are identified, additional training or experience is recommended before taking the assessment.

The checklist should be completed by the candidate, with input from their employer and training provider. Experience shows that a three-way discussion is the most effective way of doing this. We recommend that you use this checklist as a working document and carefully review each section, noting where further practical experience or knowledge is required.

Bear in mind that you are unlikely to be sufficiently prepared to pass the assessment if you cannot confidently tick at least "Adequate" for every statement in terms of both Knowledge and Practical Experience.

The AM2 Electrotechnical Assessment of Occupational Competence is designed for those who wish to practise either as an installation electrician, or as a maintenance electrician. It demonstrates 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, candidates 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 - Composite Installation

Section B - Inspection and Testing of the Completed Composite Installation

Section C - Fault Diagnosis and Correction

Section D - Assessment of Applied Knowledge

Using this Checklist

Please work through Sections A to D in this document and tick the boxes that best suit the candidate's knowledge and experience in each area. Once this task is complete, identify any areas where further knowledge or experience is needed before the candidate can undertake the assessment. Remember that you are unlikely to be sufficiently prepared to pass the assessment if you cannot confidently tick at least "Adequate" for every statement in terms of both Knowledge and Practical Experience.

If there are areas of concern, an action plan should be produced to help the candidate achieve the required standard.

The completed, signed document is a compulsory gateway check to confirm readiness for assessment before the EPA can be booked. It must be submitted to NET as part of the Request for Assessment.

PRIVACY NOTICE: NET and the Assessment Centre you attend are both Data Controllers for the purposes of Data Protection Law. Where applicable they will jointly uphold your rights. Information that you include in this form is necessary for the completion of your assessment and will only be shared between the Controllers for this purpose or their professional or legal obligations. In accordance with our terms and conditions, all units of the assessment must be completed within 24 months of commencement. We are required to retain a photograph of you to enable the verification of your identity. Specifically, photographs are retained for either 6 months after you pass the assessment, or 6 months after the 24 month period has expired. Other data is kept in accordance with our data retention policy. For full details of NET's policy on Data Protection please visit www.netservices.org.uk or the website of your assigned Assessment Centre.

Section A1: Safe Isolation and Risk Assessment (45 mins)

To demonstrate occupational competence candidates will be expected to:

	For each item please tick one box in the Knowledge section and one box in the Experience section							
	KNOWLEDGE				EXPERIENCE			
	Limited	Adequate	Extensive	Unsure	Limited	Adequate	Extensive	Unsure
1 Carry out and document an assessment of risk								
2 Carry out safe isolation in the correct sequence								

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.

	For each item please tick one box in the Knowledge section and one box in the Experience section							
	KNOWLEDGE				EXPERIENCE			
	Limited	Adequate	Extensive	Unsure	Limited	Adequate	Extensive	Unsure
1 Interpretation of specifications and technical data								
2 Selection of protective devices								
3 Install protective equipotential bonding								
4 Install and terminate PVC singles cable								
5 Install and terminate PVC/PVC multi-core & cpc cable								
6 Install and terminate SY multi-flex cable								
7 Install and terminate heat-resistant flex								
8 Install and terminate XLPE SWA								
9 Install and terminate data-cable								
10 Install and terminate FP200 type cable								
11 Protective devices in a TP&N distribution board								

Section A: Composite Installation (8.5 hours) - continued

	For each item please tick one box in the Knowledge section and one box in the Experience section							
	KNOWLEDGE				EXPERIENCE			
	Limited	Adequate	Extensive	Unsure	Limited	Adequate	Extensive	Unsure
12 Install a two-way and intermediate lighting circuit in PVC/PVC multi-core cable								
13 Install a BS 1363 13A socket outlet ring circuit in PVC singles cable								
14 Install a carbon monoxide detector safety service circuit in FP200 type cable								
15 Install data outlets circuit in Cat. 5 cable								
16 Install a BS EN 60309 16A T P & N socket outlet in XLPE SWA cable								
17 Install protective equipotential bonding to gas and water services								
18 Connect a 3-phase direct on line motor circuit in SY cable								
19 Install 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								

Section B: Inspection and Testing of the Composite Installation (3.5 hours)

In this area candidates will be expected to follow practices and procedures that take into account electrically sensitive equipment. To demonstrate occupational competence, candidates will be expected to:

	For each item please tick one box in the Knowledge section and one box in the Experience section							
	KNOWLEDGE				EXPERIENCE			
	Limited	Adequate	Extensive	Unsure	Limited	Adequate	Extensive	Unsure
Undertake an assessment of risk and work according to best practice 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 IET Guidance Note 3								
Complete the following tests on the installation in accordance with BS 7671 and IET Guidance Note 3:								
1 Continuity of protective conductors								
2 Continuity of ring final circuit conductors								
3 Insulation resistance								
4 Polarity								
5 Earth fault-loop impedance (EFLI)								
6 Prospective fault current (PFC)								
7 Check for phase sequence and phase rotation								
8 Functional testing								
Verify that the test results obtained conform to the values required by BS 7671 and IET 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								

Section C: Fault Diagnosis (2.5 hours)

To demonstrate occupational competence candidates will be expected to:

	For each item please tick one box in the Knowledge section and one box in the Experience section							
	KNOWLEDGE				EXPERIENCE			
	Limited	Adequate	Extensive	Unsure	Limited	Adequate	Extensive	Unsure
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)

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

	For each item please tick one box in the Knowledge section and one box in the Experience section							
	KNOWLEDGE				EXPERIENCE			
	Limited	Adequate	Extensive	Unsure	Limited	Adequate	Extensive	Unsure
Health and Safety								
BS 7671: Requirements for Electrical Installations								
Building Regulations								
Inspection, Testing and Fault Finding								

Identifying any further knowledge or experience required

Having completed the checklist, summarise below any areas where further knowledge or experience is required before undertaking the assessment.

Knowledge

The candidate requires further knowledge in:

List items	Tick when achieved

Experience

The candidate requires further experience in:

List items	Tick when achieved

Important:

All apprentices must take an independent assessment at the end of their training to confirm that they have achieved occupational competence. This is a formal declaration to confirm readiness of the apprentice for End Point Assessment. It must only be completed when each person signing is fully satisfied that all requirements are complied with. It is a breach of ESFA apprenticeship funding rules for this checklist to be signed before the apprentice is ready for assessment, or for any third party to sign instead of the employer.

Training Provider Declaration of Readiness for Assessment

As the apprentice's training provider, I formally confirm that the apprentice has received training and on/off the job experience and development as specified within the apprenticeship standard and assessment plan, covering the full range of Knowledge and Skills specified within this checklist. In my opinion the apprentice is able to consistently demonstrate a minimum of "adequate" in each of these areas and no further training or experience in any area is required. I confirm that all specified qualifications have been achieved and certificates submitted before assessment.

By signing below, I formally confirm that the apprentice is ready to undertake End Point Assessment.

Training Provider Signature:

Print Name:

Date:

Candidate Declaration of Readiness for Assessment

As the apprentice, I formally confirm that I believe I am consistently demonstrating a minimum of "adequate" in every area of Knowledge and Skill detailed in this checklist and that I do not require additional training or experience in any area to become occupationally competent.

By signing below, I formally confirm that I am ready to undertake End Point Assessment.

Candidate Signature:

Print Name:

Date:

Important:

All apprentices must take an independent assessment at the end of their training to confirm that they have achieved occupational competence. This is a formal declaration to confirm readiness of the apprentice for End Point Assessment. It must only be completed when each person signing is fully satisfied that all requirements are complied with. It is a breach of ESFA apprenticeship funding rules for this checklist to be signed before the apprentice is ready for assessment, or for any third party to sign instead of the employer.

Employer Declaration of Readiness for Assessment

As the apprentice's employer, I am fully satisfied that my apprentice is consistently demonstrating a minimum of "adequate" in every area of Knowledge and Skill detailed in this checklist and is therefore occupationally competent. No further learning or experience in any area is required. I confirm that all specified qualifications have been achieved and certificates submitted before assessment.

By signing below, I formally confirm that my apprentice is ready to undertake End Point Assessment.

Employer Signature:

Print Name:

Date:

Submitting this Checklist

Once you have completed and signed the checklist please submit it to your chosen assessment centre for gateway approval. Checklists sent to the NET head office will not be reviewed and will be destroyed in line with our data protection and privacy policy.

Please ensure the whole document is submitted. Documents with missing pages will not be accepted.

