

Level 3 Advanced Technical Diploma in Electrical Installation

(8202-30-032)

**Version 1.0**

**About this document**

This document contains the mandatory recording forms for the synoptic assignment within the Level 3 Advanced Technical Diploma in Electrical Installation (8202-30).

* Declaration of authenticity form.
* Candidate record form.
* Practical observation form.

**Declaration of authenticity**

**Technical qualifications**

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| **Assessment ID** | **Qualification number** |
|  |  |
| **Candidate name** | **Candidate number** |
|  |  |
| **Centre name** | **Centre number** |
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**Additional Support**

Has the candidate received any additional support in the production of this work?

**No  Yes ** (Please tick appropriate)

If yes, give details below (and on a separate sheet if necessary).

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**Candidate:**

*I confirm that all work submitted is my own, and that I have acknowledged all sources I have used.*

*I also confirm that I had no knowledge of the content of this assignment prior to the delivery from my tutor/assessor and that I will not divulge the content of this assignment to other potential candidates.*

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| **Candidate signature** | **Date** |
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**Tutor:**

*I confirm that all work was conducted under conditions designed to assure the authenticity of the candidate’s work, and am satisfied that, to the best of my knowledge, the work produced is solely that of the candidate.*

*I also confirm that I have raised any potential cases of malpractice to City & Guilds.*

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| **Tutor signature** | **Date** |
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Note: Where the candidate and/or tutor is unable to, or does not confirm authenticity through signing this declaration form, the work will be returned to the centre and this will delay the moderation process. If any question of authenticity arises, the tutor may be contacted for justification of authentication. **Candidate Record Form**

**Technical qualifications**

**Level 3 Advanced Technical Diploma in Electrical Installation (8202-30)**

**Level 3 Electrical Installation - Synoptic assignment (8202-032)**

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| **Candidate name** | **Candidate number** |
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| **Centre name** | **Centre number** |
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***Marker Notes*** *– Please always refer to the relevant marking grid for guidance on allocating marks and make notes that describe the quality of the evidence and justification of marks. Expand boxes as required.*

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| **AO1 – Recall -** Recall of knowledge relating to the qualification LOs | | | | | | | | | | | | | | | | | | | | | | | | |
| 15% | **1** | | | **2** | | **3** | | | **4** | | | **5** | | **6** | | | **7** | | | **8** | | **9** | | |
| AO1 Mark | Notes & justification | | | | | | | | | | | | | | | | | | | | | | | |
| **AO2 – Understanding -** Understanding of concepts theories and processes relating to the LOs | | | | | | | | | | | | | | | | | | | | | | | | |
| 20% | **1** | | **2** | | **3** | | **4** | | **5** | | **6** | | **7** | | **8** | | **9** | | **10** | | **11** | | **12** | |
| AO2 Mark | Notes & justification | | | | | | | | | | | | | | | | | | | | | | | |
| **AO3 – Practical/technical skills -** Application of practical/technical skills | | | | | | | | | | | | | | | | | | | | | | | | |
| 30% | **1** | **2** | | **3** | **4** | **5** | | **6** | **7** | **8** | | **9** | **10** | **11** | | **12** | **13** | **14** | | **15** | **16** | **17** | | **18** |
| AO3 Mark | Notes & justification | | | | | | | | | | | | | | | | | | | | | | | |
| **AO4 – Bringing it all together -** Bringing it all together - coherence of the whole subject | | | | | | | | | | | | | | | | | | | | | | | | |
| 20% | **1** | | **2** | | **3** | | **4** | | **5** | | **6** | | **7** | | **8** | | **9** | | **10** | | **11** | | **12** | |
| AO4 Mark | Notes & justification | | | | | | | | | | | | | | | | | | | | | | | |
| **AO5 - Attending to detail/perfecting** | | | | | | | | | | | | | | | | | | | | | | | | |
| 15% | **1** | | | **2** | | **3** | | | **4** | | | **5** | | **6** | | | **7** | | | **8** | | **9** | | |
| AO5 Mark | Notes & justification | | | | | | | | | | | | | | | | | | | | | | | |

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| **Tutor signature** | **Date** |  | **Total** |
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| Consumer unit located in workshop unit  VOLTAGE DROP TO COMPLY WITH BS 7671  Cleaners socket-outlets female | | Nominal Voltage (U0) 230 V | | Earthing Arrangement TN-C-S | | External Earth Fault Loop Impedance (Ze)  0.3 Ω | |  |
| Circuit | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Description | Water Heater Number 1 | FCUs for Hair dryer 1 and hand dryer in male change room & toilet | Heaters male changing room and toilet | Heaters female and male shower rooms | Cleaners Socket-outlets male | Cleaners socket-outlets female | Outside lights south side | Lights male changing room and toilet |
| No. points | 1 | 2 | 2 | 2 | 2 | 2 | 5 | 17 |
| Type of wiring | 70 0C thermoplastic 3-core PVC SWA | 70 0C thermoplastic single-core non-sheathed | 70 0C thermoplastic single-core non-sheathed | 70 0C thermoplastic single-core non-sheathed | 70 0C thermoplastic single-core non-sheathed | 70 0C thermoplastic single-core non-sheathed | 70 0C thermoplastic single-core non-sheathed | 70 0C thermoplastic single-core non-sheathed |
| Design Current (Ib) |  | 15.6 |  |  | 20 | 20 |  |  |
| Type and Nominal rating (In) |  | 16 C | 20 B | 20 B |  |  | 6 B | 6 B |
| Length  (metres) | 3 |  | 17 | 6 |  | 18 |  |  |
| Installation method | C |  | B | B | B | B | B | B |
| Ambient temperature 0C | 30 0C | 35 0C | 35 0C | 35 0C | 35 0C | 35 0C | 35 0C | 35 0C |
| Rating Factor  Ambient air temp. Ca | 1 |  |  |  |  |  |  |  |
| Total circuits in group | 1 | 4 | 4 | 3 |  |  | 4 | 4 |
| Rating factor grouping Cg |  |  |  |  |  |  |  |  |
| Minimum current capacity (<It) | 32 |  |  |  |  |  |  |  |
| mV/A/m |  |  |  |  |  |  |  |  |
| Actual Voltage drop |  |  |  |  |  |  |  |  |
| Minimum conductor csa mm2 | 4 |  |  |  | 4 | 4 |  |  |
| Notes:   1. This schedule shows a sample of the circuits in the changing block for the purpose of this assessment. You may wish to design the other circuits if you have time. 2. All lighting circuits and cleaner’s socket-outlet circuits **can be ignored for grouping** due to minimal loading. 3. Show your working out calculations on the calculation sheet including notes regarding grouping and scales on the drawing | | | | | | | | |

**Candidate Recording Forms (Task 1 Design Grid)**

**1b.**

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| **Report sheet** | |
| **Job card reference number:** | |
| **Candidate name:** | **Date of assessment:** |
| **Description of work done/ tests carried out to locate fault (if any)**  **The nature of the fault**  **Brief description of rectification work needed including materials required to fix the fault.**  **Actions required to ensure rectification is suitable.** | |

**Practical Observation Form (PO)**

**Candidate Name:** **Assessment ID:**

**Candidate Number:** **Centre Number**

**Date:**

The evidence section in this PO form should consist of comments/notes that are used to record the ***qualities******and details*** of performance to inform marking and moderation against the AOs: What is the candidate doing? How well are they performing? - Describe what you are seeing in terms of the candidate demonstrating skills, knowledge and behaviours. These statements will support you in marking the assignment holistically and also support any decisions made in moderation.

This PO form should **not be used** to assign marks per task as marks need to be applied holistically for each AO across all tasks within the assignment.Use the Candidate Record Form (CRF) to record the final overview of the quality of performance and the overall marks for each AO.

This form, along with all other candidate evidence, should be uploaded to the Moderation Portal if requested or as part of a sample.

**Task 2 – Inspection and testing**

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| **Task** | **What went well?** | **What could be improved?** |
| Pre-task checks  sufficient information obtained  circuit details checked  risk assessment considered  secure isolation carried out |  |  |
| Inspection  use of senses  use of documents  understanding relevance |  |  |
| Testing   * instrument settings & checks * following sequence * fluent use of instruments * understanding & interpreting results * safe practices * precautions for live testing * recording and verification of results |  |  |
| Documentation   * clear and precise * fully completed * technically accurate |  |  |

**Task 3 – Fault Diagnosis and Rectification**

|  |  |  |
| --- | --- | --- |
| **Task** | **What went well?** | **What could be improved?** |
| Interpreting symptoms and preparation  clear decisions based on symptoms  symptoms fully understood  selection of correct equipment  safe procedures followed  risks assessed  secure isolation performed |  |  |
| Fault diagnosis   * use of instruments and connections * correct methods applied * clear judgements made based on data * logical sequence followed |  |  |
| Rectification   * Consideration of factors * Suitable plan of action * Equipment identified correctly * Information provided accurately and technically sound |  |  |