|  |  |  |  |
| --- | --- | --- | --- |
| **Qualification Code** |  | **Qualification Name and Release Number** |  |
| **Unit Code** | UEPOPS349B | **Unit Name** | Operate Local H.V. switchgear |

|  |  |  |
| --- | --- | --- |
| **Summary of Assessment Events** | | |
| **Event Number/Name** | **Description** | **Assessment Method** |
| This unit can be assessed concurrently with UETTDRIS68A Solve problems in energy supply protection equipment | ***Presentation:*** *Deliver task briefing to a group.* | Choose an item. |
| Assessment 1 Theory Test (A1) | HV Switch Gear Theory Test | *Written* |
| Assessment 2 Practical/ Portfolio Assessment(A2) | HV Switch Gear Practical & portfolio Observation & Assessment | *Observation* |

| Evidence Requirements | | | **Assessment Methods** | | | | | | **Learner Resources** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ways in which evidence will be collected (E.g. Written, observation etc.) | | | Written | Practical | Observation | Oral Questioning | Portfolio | Add assessment method |  |
| **Element** | **Performance Criteria**  (Indicate where each element/performance criterion will be assessed. E.g. Task 1, Q4 etc.) | | | | | | | |  |
| Prepare to operate switchgear | 1.1 | Work requirements are identified and clarified/confirmed with appropriate parties in accordance with enterprise procedures | Q1.2 (8)  Formative Exercises |  |  |  |  |  |  |
|  | 1.2 | Procedures/safety precautions when operating H.V. circuit breakers are identified and recognised in accordance with enterprise procedures | Q1.5 (1 To 6)  Formative Exercises |  |  |  |  |  |  |
|  | 1.3 | Identify circuit breaker type and determine correct operating procedure in accordance with enterprise procedures | Q1.5 (7)  Formative Exercises |  |  |  |  |  |  |
|  | 1.4 | Examine and assess circuit breaker condition for safe operation in accordance with enterprise procedures | Q1.2  (7)  Formative Exercises |  |  |  |  |  |  |
|  | 1.5 | Suppress related protection if and where necessary in accordance with enterprise procedures |  | A2 | A2 | A2 | A2 |  |  |
|  | 1.6 | Where appropriate, the teams and individuals roles and responsibilities within the team are identified and, where required, assist in the provision of the on-the-job training |  |  | A2 |  |  |  |  |
| Operate circuit breaker | 2.1 | Mechanical operation and limitations of the equipment are identified in accordance with enterprise procedures | Q1.2 (6)  Formative Exercises |  |  |  |  |  |  |
|  | 2.2 | Implications of actions are identified and recognised in accordance with enterprise procedures |  |  | A2 |  |  |  |  |
|  | 2.3 | Circuit breaker is operated and confirmation that required status has been achieved is given in accordance with enterprise procedures | Q1.5  (5)  IS74 Formative Exercises |  |  |  |  |  |  |
|  | 2.4 | Racking, testing, isolation, circuit earthing and reinstatement procedures are carried out to manufacturer instructions and enterprise/site procedures | Q1.5 (1/2)  Formative Exercises |  |  |  |  |  |  |
|  | 2.5 | Confirm test equipment integrity and prove circuit de-energised in accordance with operating procedures | Q1.6 (52)  Formative Exercises |  |  |  |  |  |  |
| Validate circuit breaker integrity | 3.1 | Equipment inspected for safe operation in accordance with enterprise procedures |  | A2 | A2 |  |  |  |  |
|  | 3.2 | Circuit breaker environment is inspected to ensure all statutory requirements are met |  | A2 | A2 |  |  |  |  |
|  | 3.3 | Confirm circuit breaker operates in accordance with manufacturer specifications |  | A2 | A2 |  |  |  |  |
| Complete documentation | 4.1 | Documentation is updated, log sheets maintained and plant problems, movements, abnormalities and status are reported and logged in accordance with enterprise/site procedures. |  |  |  |  | A2 |  |  |

| **Required Skills** (must be mapped to the tasks) | **Assessment Methods** | | | | | | **Learner Resources** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **The evidence must show the candidate can:** | Written | Practical | Observation | Oral Questioning | portfolio | Add assessment method |  |
| REQUIRED SKILLS AND KNOWLEDGE |  |  |  |  |  |  |  |
| 8) **This describes the essential skills and knowledge and their level, required for this unit.** |  |  |  |  |  |  |  |
| **Evidence shall show that knowledge has been acquired of operating H.V. switchgear.** |  |  |  |  |  |  |  |
| **All knowledge and skills detailed in this unit should be contextualised to current industry practices and technologies.** |  |  |  |  |  |  |  |
| **The extent of the Essential Knowledge and Associated Skills required follows:** |  |  |  |  |  |  |  |
| **KS01-PO349B Local H.V. switchgear** |  |  |  |  |  |  |  |
| **Evidence shall show that knowledge has been acquired for safe working practices of:** |  |  |  |  |  |  |  |
| **T1 Relevant environmental, occupational health and safety legislation and regulations** | Q1.1 (1 to 3)  Formative Exercises |  |  |  |  |  |  |
| **T2 Enterprise procedures** |  |  |  | A2 |  |  |  |
| **T3 Plant drawings and manufacturers manuals** | Q  2.12  (68)  Formative Exercises |  |  |  |  |  |  |
| **T4 Introduction to and typical arrangements of power production plant** | Q  2.12  (68)  Formative Exercises |  |  |  |  |  |  |
| **T5 Relevant plant and equipment, its location and operating parameters** | Q  2.12  (69)  Formative Exercises |  |  |  |  |  |  |
| **T6 Switchgear types and characteristics** | Q2.7 (69)  Formative Exercises |  |  |  |  |  |  |
| **T7 Electrical protection types and characteristics** | Q2.7 (66)  Formative Exercises |  |  |  |  |  |  |
| **T8 Electrical fundamentals** | Q1.5 (1)  Formative Exercises |  |  |  |  |  |  |
| **T9 Relevant state and territory regulations** |  |  |  |  | A2 |  |  |
| **T10 Electrical protection equipment, types and characteristics** | Q2.6 (57/58)  Formative Exercises |  |  |  |  |  |  |
| **T11 Plant status;** | Q2.2 (30 to 37)  Formative Exercises |  |  |  |  |  |  |
| **T12 Circuit breaker operating parameters;** | Q2.7 (36/37)  Formative Exercises |  |  |  |  |  |  |
| **T13 Consequences of operator actions;** |  |  |  |  |  |  |  |
| **T14 H.V electrical operation procedure and practices** |  | EP4/EP5 |  |  |  |  |  |
| **T15 Personal protective equipment requirements for H.V. circuit breaker operation** | Q1.1 (1 to 3) Formative Exercises |  |  |  |  |  |  |
| **T16 H.V. power systems and parameters;** |  | EP6 |  |  |  |  |  |
| **T17 H.V. protection schemes;** |  |  |  |  | Q3.3 IS74A |  |  |
| **T18 Enterprise procedures;** |  |  | A2 | A2 |  |  |  |
| **T19 Circuit breaker construction and operation;** | Q1.5 (1 / 2)  Formative Exercises |  |  |  |  |  |  |
| **T20 Isolation and earthing procedures;** | Q1.5  (2)  Formative Exercises |  |  |  |  |  |  |
| **KS02-PO349B Local H.V. switchgear** |  |  |  |  |  |  |  |
| **Specific skills needed to achieve the Performance Criteria:** |  |  |  |  |  |  |  |
| **T1 Interpret plant drawings and manufacturers manuals** |  |  |  |  | Q3.3  IS74A |  |  |
| **T2 Apply relevant state and territory regulations** |  |  | A2 | A2 |  |  |  |
| **T3 Apply relevant statutory legislation;** |  |  | A2 | A2 |  |  |  |
| **T4 Apply relevant enterprise/site safety procedures;** |  |  | A2 | A2 |  |  |  |
| **T5 Apply enterprise/site emergency procedures and techniques;** |  |  | A2 | A2 |  |  |  |
| **T6 Apply enterprise recording procedures;** |  |  | A2 | A2 |  |  |  |
| **T7 Locate relevant plant and equipment;** |  |  |  |  | Q3.3  IS74A |  |  |
| **T8 Operate circuit breaker within design parameters;** | Q  2.12  Formative Exercises |  |  |  |  |  |  |
| **T9 Identify plant status;** | Q  2.12  Formative Exercises |  |  |  |  |  |  |
| **T10 Prepare equipment for operation;** |  | A2 | A2 |  |  |  |  |
| **T11 Communicate effectively;** |  |  | A2 | A2 |  |  |  |
| **T12 Recognise abnormal circuit breaker operation;** | Q2.7 (70)  Formative Exercises |  |  |  |  |  |  |
| **T13 Plan and prioritise work;** |  |  | A2 | A2 |  |  |  |
| **T14 Operate protection equipment;** |  |  | A2 | A2 |  |  |  |
| **T15 Isolate and earth equipment** | Q2.9 (23/24)  Formative Exercises |  |  |  |  |  |  |

| **Critical Aspects** | **Assessment Methods** | | | | | | **Learner Resources** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **The evidence must show the candidate can:**  **Know the operation function of various circuit breakers and co-ordinate the protection scheme** | Written | Practical | Observation | Oran Questioning | Portfolio | Add assessment method |  |
| Critical aspects of evidence required to demonstrate competency in this unit |  | A2 | A2 |  | A2 |  |  |
| 9.2)**Before the critical aspects of evidence are considered all pre-requisites shall be met.** |  |  |  |  |  |  |  |
| **Evidence for competence in this unit shall be considered holistically. Each element and associated Performance Criteria shall be demonstrated on at least two occasions in accordance with the “Assessment Guidelines – UEP12”. Evidence shall also comprise:** |  |  |  |  |  |  |  |
| * **A representative body of work performance demonstrated within the timeframes typically expected of the discipline, work function and industrial environment. In particular this shall incorporate evidence that shows a candidate is able to:** |  |  |  |  |  |  |  |
| * **Implement Occupational Health and Safety workplace procedures and practices including the use of risk control measures as specified in the Performance Criteria and Range Statement** | Q1.1 (1 to 5)  Formative Exercises |  |  |  |  |  |  |
| * **Apply sustainable energy principles and practices as specified in the Performance Criteria and Range Statement** |  |  |  | A2 |  |  |  |
| * **Demonstrate an understanding of the essential knowledge and associated skills as described in 6) Essential Knowledge and Associated Skills of this unit** | A1 |  |  |  |  |  |  |
| * **Demonstrate an appropriate level of employability skills** |  | A2 |  |  |  |  |  |
| * **Conduct work observing the relevant Anti Discrimination legislation, regulations, polices and workplace procedures** |  |  |  |  |  |  |  |
| * **Demonstrated performance across a representative range of contexts from the prescribed items below:** |  | A2 |  |  |  |  |  |
| * **Knowledge and application of relevant sections of: Occupational Health and Safety legislation; Statutory legislation; Enterprise/site safety procedures; Enterprise/site emergency procedures** | A1 |  |  |  |  |  |  |
| * **Preparation for primary switchgear operations** |  | A2 | A2 |  |  |  |  |
| * **Operation and knowledge of circuit breakers** | A1 |  |  |  |  |  |  |
| * **Implications of circuit breaker operations** |  | A2 | A2 |  |  |  |  |
| * **Dealing with an unplanned event by drawing on essential knowledge and skills to provide appropriate solutions incorporated in the holistic assessment with the above listed items** |  |  |  | A2 |  |  |  |
|  |  |  |  |  |  |  |  |

| **Dimensions of Competency to be incorporated into the tasks/assessment** | **Assessment Methods** | | | | | | **Learner Resources** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Which assessment event/s allow the learner to demonstrate the following | Written | Practical | Observation | Oral Questioning | Portfolio | Add assessment method |  | |
| Task Skills (undertaking the specific task/s required to complete a work activity to the required standards) |  | A2 | A2 | A2 |  |  |  | |
| Task Management Skills (able to do more than one thing at a time and managing the tasks correctly) |  | A2 | A2 | A2 |  |  |  | |
| Contingency Planning Skills (responding appropriately to irregularities and breakdowns in routine within a job or workplace) |  | A2 | A2 | A2 |  |  |  | |
| Job Role Environment Skills (able to deal with the responsibilities and expectations of the work environment) |  | A2 | A2 | A2 |  |  |  | |

LEARNER RESOURCES

UETTDRIS68A\_UK\_Assesment\_mapping\_stremlined\_template\_v1Embedded..doc

UETTDRIS74A\_UK\_Assesment\_mapping\_stremlined\_template\_v1Embedded..doc

**UEPOPS349B - Operate Local H.V. switchgear**

**Session 1+2+3**

**Power System Protection UETTDRIS68A+74A**

**18.Connection of differential relay.zip (3.77MB)**  
[http://www.filefactory.com/file/1p75qf8n966z/n/18.Connection\_of\_differential\_relay.zip](http://grid.filefactory.com/wf/click?upn=8tIX75zmv4pcsn9X2kg5JPXYkvZKM0XicLE0Xe5UtbyJ7mDmouVZ4cdcfQ2Z0WE94GatWPe2hAJNtIO1Kv0IjIff7W6FBS5ZcpCOvTkQ9j1iCFEi1A0ccXKlbu5IGixd_v7TcKo3CcnPCP8zlK8SZehnLGxiqxn5RsshmUhilv-2FqSn9Zt06l9UzJL4Vm-2BCYayBYx7yU9L6W8gpqwZiNyQAZ1Ei8Sr8U7K0xGNT6AlSFQykjui-2Bq0JpqYAD-2FH-2F8z-2B-2BatzxVZxWR-2F3-2FrX4vJ1LzxNmOZNQdrTK2mkT9xB9yDRrdg5UbWyvTROVLNexQOSQIownRBuXjiIrcDJZYQUvtWw-3D-3D)  
  
**20.Connection of main transformer, CT, differential relay.zip (5.66MB)**  
[http://www.filefactory.com/file/2d95oy78appj/n/20.Connection\_of\_main\_transformer,\_CT,\_differential\_relay.zip](http://grid.filefactory.com/wf/click?upn=8tIX75zmv4pcsn9X2kg5JPXYkvZKM0XicLE0Xe5Utbz0hB60riaroayRVDpN5XYDNtXrK3RRz6ysY-2FerR9-2BbokQ6HIqEXh9oASkhUGIZhdbohynUV-2FKt-2FsO-2BcVcoZT5V-2BAH-2FcY5QDpeg5ZfGHTdY1tLH0sdEwA90B8bd5OvEWFI-3D_v7TcKo3CcnPCP8zlK8SZehnLGxiqxn5RsshmUhilv-2FqSn9Zt06l9UzJL4Vm-2BCYayBYx7yU9L6W8gpqwZiNyQAd9dM2O5dtu62zIWA7XM1ujvD2FRtHb712R39DjIQ3u-2FtH3KfH8tUyeYuSqL77LN-2BeuRkUbjB8FNW8TmYpYY5iTUEejHK6EgmZnFwLO9AL4yvZi39rxlmMjKump9qNjPQg-3D-3D)  
  
**15.Overcurrent & earth fault protection.zip (16.17MB)**  
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**19.3 Phase differential relay.zip (3.03MB)**  
[http://www.filefactory.com/file/5btltmjo0qkf/n/19.3\_Phase\_differential\_relay.zip](http://grid.filefactory.com/wf/click?upn=8tIX75zmv4pcsn9X2kg5JPXYkvZKM0XicLE0Xe5UtbyZYIfic5CrChSoOubEggswuv-2FjGhZp36egXWNS7NEzX5wOlYgI3LXS08SXama41Hxu-2Faw5rd0f-2B8rfRdGH-2F4UK_v7TcKo3CcnPCP8zlK8SZehnLGxiqxn5RsshmUhilv-2FqSn9Zt06l9UzJL4Vm-2BCYayBYx7yU9L6W8gpqwZiNyQARQ4-2BFpYKLY89vxPkaaiuwP7mFTDy0vIEChR9l2y05pl9t9xs4Rlb9N-2FEtMrVzekPalDVqntHKStu8ZnB54EhOq9Da0FrI8JDPw6NALrDjMesYmZIzTZz3pvtMYg3IPIJg-3D-3D)  
  
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**17.Power transformer protection.zip (10.6MB)**  
[http://www.filefactory.com/file/fp3tmn8sm7t/n/17.Power\_transformer\_protection.zip](http://grid.filefactory.com/wf/click?upn=8tIX75zmv4pcsn9X2kg5JPXYkvZKM0XicLE0Xe5UtbxifQ5pr9wu-2FPyOGPwVHmUg4-2Fp8mlAeqafpV-2BHPZXw55GVbk3Tlq-2BSD6LZNlGDhSb1gD-2FWk9soY7Lo4tZ12xlfm_v7TcKo3CcnPCP8zlK8SZehnLGxiqxn5RsshmUhilv-2FqSn9Zt06l9UzJL4Vm-2BCYayBYx7yU9L6W8gpqwZiNyQAVgeQO83meWqfzUOIGIFHQX-2F7ZrSgTzNa0zT-2B-2FOSWLVrCHc-2FY57bGutZUnJ0yZlC48-2BUwAOikVQB-2BA-2BwCn8PcpMIeuDnba9C67Yb9BWVbIsbwlfumUuFDarT7tRO1MZ5kA-3D-3D)  
  
**30.Typical control+Power Installation diagram.zip (7.82MB)**  
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**Power System Operation UETTDRIS69A**

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**Advanced Power System Operation**

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