**Student Assessment Guide (Unit of Competency)**

**(Streamlined Training Package)**

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| **Faculty** | C.E.T. | | | | **College** | | Ultimo | |
| **Teaching Section** | Electrical Engineering | | | | | | | |
| **Qualification Number and Name** | Certificate IV in Electrical Equipments and Systems (Naval Power System Operation) | | | | | | | |
| **Unit of Competency**  **Number and Name** | **UEPOPS349B - Operate Local H.V. switchgear** | | | | | | | |
| **Application** | This competency standard unit deals with the skills and knowledge required to undertake the local operation of high voltage circuit breaking devices  . .  . . | | | | | | | |
| **Prerequisites** | Electrical Principle | | | | | | | |
| **Licensing,** |  | | | | | | | |
| **Required Knowledge & Skills**  **Required Knowledge & Skills** | This unit is concurrently delivered with UETTDRIS68A Solve problems in energy supply protection equipment and the same level of assessment will be made.  You will be assessed to prove your competence in the required skills and knowledge below:  .   |  |  | | --- | --- | | KS01-TIS68A Electrical power system protection  Evidence shall show an understanding of protection methods and devices for electrical power systems to an extent indicated by the following aspects:  T1 Protection fundamentals encompassing:   purpose of protection   features of a protection scheme  T2 Instrument transformers for protection encompassing:   Operating principles   Applications of current transformers   Applications of voltage transformers  T3 Feeder protection encompassing:   fuse protection   overcurrent & earth fault   sensitive earth fault   unit schemes   distance protection   trip/close sequences for feeders   recloser/sectionaliser systems  T4 Transformer protection encompassing:   overheating protection   overcurrent protection   restricted earth fault protection   differential protection   oil and gas devices  T5 Busbar protection encompassing:   types of fault   requirements of busbar protection   system protection   frame-earth protection  T6 Surge protection encompassing:   voltage surges   surge diverters   arcing horns |  | | | | | | | | |
| **Assessment criteria** | Before the critical aspects of evidence are considered all prerequisites must 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 - UEE07'. 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 * Apply sustainable energy principles and practices as specified in the performance criteria and range statement * Demonstrate an understanding of the essential knowledge and associated skills as described in this unit. It may be required by some jurisdictions that RTOs provide a percentile graded result for the purpose of regulatory or licensing requirements. * Demonstrate an appropriate level of skills enabling employment * Conduct work observing the relevant Anti Discrimination legislation, regulations, polices and workplace procedures. * Demonstrated consistent performance across a representative range of contexts from the prescribed items below: * Applying OHS practices in the workplace as described in 8) and including:  1. Preparing to enter the workplace including, the use of work permits and clearances and isolation permissions.Planning estimation work effectively. 2. Understanding and following risk control safe work methods. 3. Applying work procedures and instructions as they apply to risk control measures. 4. Dealing with accidents and emergencies within the scope of responsibility. 5. Participation in consultation processes, identifying hazards and implementing and monitoring control measures.   Dealing with unplanned events | | | | | | | |
| **Assessment methods & schedule** | Assessment of this Learning Specification will be based on the evidence that you provide using 2 or more of the following, as prescribed by your local Institute/ College teaching staff:   * Observation of skills in practical exercises and * Questioning of knowledge using pen and paper tests, essays, oral tests and/or interviews   You will be required to complete all assessments for this unit to demonstrate your competence in this unit.  Sufficient evidence must be collected, using local assessment methods/tools identified in the Assessment Table below to demonstrate both the student's:  1. ***Successful Performance of the Competency***, by meeting the requirements in the Work Performance Specification, and an  2. ***Understanding of the required skills and knowledge (KS01-H115A)***, by meeting the requirements in the Learning Specification/s. | | | | | | | |
| Assessment event no. | Assessment Name/  Method | Assessment date | Assessment duration | | Assessment venue | | Assessment outcome |
| 1 | Practical  Test | Marked on Week 8 | 2 hours | | Bldg. K2.11 | | Satisfactory/Not yet satisfactory |
| 2 | Theory Exam | Week  17 | 2 hours | | Bldg. K2.11 | | Satisfactory/Not yet satisfactory |
| **Reporting assessment outcomes** | Your Transcript of Academic Record lists all of your results in your study to date.  “This is an ungraded unit; therefore your academic result will be recorded and reported to you as ***Competent* (AC)** or ***Not Yet Competent* (NC)**”.  If you achieved competency in this unit but are unable to finish the qualification, you will receive a Transcript of Academic Record showing only the units you completed. A **Statement of Attainment** for the unit/units you have successfully completed will also be provided. Please contact the Head Teacher to initiate this process.  Your final reported results can be accessed from the DET Student Portal <https://portal.det.nsw.edu.au>  Recognition and credit transfers: you can apply to have your previous study, work and/or life experiences recognised. Recognition of Prior Learning will be determined according to TAFE NSW Recognition Policy.  Please see [Recognition for previous learning and experience - TAFE](https://www.tafensw.edu.au/courses/get-started-at-tafe-nsw/recognition-of-prior-learning) for further information. | | | | | | | |
| **Resources required for assessments** | This unit is assessed using specific resources/tools:  Learner Resource Manual  Students don’t need to purchase any Learner Resource Manual :  Principal References  It is advised that students have access to the following reference books as the main references:   * Generation, Transmission and Utilization of Electrical Power By AT Starr * Basic Training Manual 16-12 Electrical Trades-Cable, conduits, busbar  |  |  | | --- | --- | | * Trades-Cable, conduits, busbar | Some components of Learning outcome 3 | | * Electrical Distribution Engineering (2nd Ed) by Anthony j Pansini, The Fairmont Press Inc 1991 | |  * Electrical Power Distribution & Transmission by Luceson Faulkenberry & walter Coffer , Prentice Hall, 1996 * Electrical Power Transmission System-By R Robert Eata & Edward Cohen , Prentice Hall, 1972 * Site Surveying & Levelling By John Clancy + Internet downloaded article-Software package for line route survey * +Transmission line mechanical design * Electrical Power Transmission System-By R Robert Eata & Edward Cohen , Prentice Hall, 1972 * Arts & Science of Protective Relaying By Stevenson * Power Protection Course Notes from various Technological Universities   Australian Standards    AS 1026, 1023, 1034, 1042,1078,1117,1158,1190,1202, 1220,1222,1243, 1284, 1359,1360,1469,1531,1675,1680,1746,1767,1768,1798,1824,1883,1930,1931,  2005,2006,2184,2209,2263,2264,2326,2374,2421,3000,3116,3274  You will also be provided with   * Access to a simulated environment containing information similar to that which you may encounter in a workplace. * Access to computer systems for real time assessments sufficient to enable participation in the assessment process.   Other Resources  To complete this unit successfully you should bring the following equipment to class with you:   * pens, pencils, notepaper, soft rubber eraser * scientific calculator Casio fx-100AU PLUS * USB memory Stick | | | | | | | |
| **Assessment feedback, review or appeals** | Your teacher will provide feedback no later than three (3) weeks after all assessment activities have been conducted.  If you would like to request a review of your results or if you have any concerns about your results, contact your teacher or head teacher.  You will have three weeks from the date you receive your results in which to make an appeal and request a review.  You will receive a response within **ten working days** after receipt of the request.  Your Head Teacher will address the appeal in accordance with Assessment Guidelines for TAFE NSW. | | | | | | | |
| **Assessment guidelines** | You must submit assessment work and attended scheduled assessments on the required dates.   * **If you miss an assessment** you must discuss the issue of the missed assessment with your teacher within seven days, or at your first class attendance after the assessment, whichever occurs first. * **If you miss an exam**, or arrive late by more than 30 minutes after the commencement of the exam, due to illness or circumstances beyond your control, you should contact the teacher of this unit. * **If you are deemed unsatisfactory in an assessment event** you will be eligible to receive one (1) additional reattempt to demonstrate competence. Speak to your teacher for further information. * **For final examinations in Category A or B** (exams that are centrally set and timetabled) you have 10 working days. Your teacher will inform you about the revised examination date which may not be until the following year. * **If you engage in cheating** such as copying, colluding with another person, using unauthorised notes, or allowing another person to copy your work, you will be liable for disciplinary action as per [Student Discipline Policy - TAFE NSW](https://www.det.nsw.edu.au/policies/student_serv/discipline/stu_discip/PD20020075.shtml?query=student+discipline) Whatever the form of assessment, it is essential that the work you are assessed on is your own. To validate the authenticity of your submitted work it may be checked used anti plagiarism software in addition it may be stored for future plagiarism checking.   TAFE NSW provides learners with every reasonable opportunity to have their work assessed and where possible each case of learner absence from an assessment will be considered on an individual basis. However, where there are no extenuating circumstances, the following penalties apply:   * where the results of the unit are recorded in marks, when the assessment is up to seven days late the result achieved by the learner is reduced by 15% * when the assessment is more than seven days late, the result recorded is recorded as “not yet competent” * for non-attendance at an assessment on a negotiated date, the result is recorded as “not yet competent”.   You can view information related to assessment in *Every Student’s Guide to Assessment in TAFE NSW,* which is available from [www.tafensw.edu.au/courses/assessment](http://www.tafensw.edu.au/courses/assessment). | | | | | | | |
| **Assessment: reasonable adjustments** | If you are a student with a disability it is important for you to indicate this on your enrolment form and make contact with the Teacher / Consultant for Students with a Disability in your Institute for further information. If possible, this should happen before you enrol. They will provide you with appropriate information about the range of units available. Teachers and teacher consultants will arrange for students with a disability to be given reasonable adjustment in assessment on an individual needs basis.  Teachers may make reasonable allowances for the learners, based on the evidence provided, in accordance with the [Assessment Policy - TAFE NSW](https://www.det.nsw.edu.au/policies/assessment/tafe/stud_assess/PD20050173.shtml?query=assessment) This may relate to the timeframe for submitting/attempting the assessment task or to an alternative form of assessment evidence to be used for assessing the learner’s level of achievement. | | | | | | | |

RESIT INSTRUCTION

To follow repeat unit payment form 2018

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| **Teacher Contact Details** | Unit Teacher  U Kyaw Naing | Location**:** Bldg M6.20/ K2./11  Email**:** u.kyawnaing@tafensw.edu.au  Phone**:** 0404289750 |
| Head Teacher  Michael James |  |