



Learning and Assessment Plan

This learning and assessment plan outlines how this unit or cluster of units will be delivered and assessed. The schedule of learning topics, assessments and the due date for assessments is included.

Qualification national code and title:	UEE11 Electrotechnology Training Package, Ver. 1.5 UEE30811 Certificate III In Electrotechnology – Electrician Pathway (A123)
Delivery Period:	Semester 2, 2019, 54 Hours, Cert III.

National ID	Name of unit
UEENEEG033A	Solve problems in Single and Three Phase Low Voltage Electrical Apparatus and Circuits (Release 3).
<p>You can access the unit of competency here: UEENEEG033A link: https://training.gov.au/Training/Details/UEENEEG033A UEE30811 Qualification link: http://training.gov.au/Training/Details/UEE30811</p>	
Delivery Location/s (Campus/Room/Online):	Midland Campus B Block B50 / B41, E Block E105 & E100

Student Learning Resources, text, equipment (Required/Optional)		
Student to supply:		
<ol style="list-style-type: none"> 1. A4 Ruled Lecture Notebook 2. A4 Grid Paper Notebook 3. A4 Clear Plastic Sleeve portfolio with at least 25 sleeves 4. Coloured Pens (Red, Black, Green and Blue) 5. Highlighter 6. Led Pencil, Eraser 7. Permanent Marker 	<ol style="list-style-type: none"> 8. Ruler, Drawing Triangles, Protractor 9. A non-programmable scientific calculator 10. USB storage device (e.g. thumb drive or an external hard drive.) 11. Steel capped safety boots 12. Clear safety glasses 13. Blue long sleeved cotton work shirt and work pants or shorts. 	
14. Supply EW Training Licence Number and sign SMWS		
College to supply:		
Unit Code	Printed Material	Tools/Facilities/Materials
UEENEEG033A	<ol style="list-style-type: none"> 1. Resource Book 2. Portfolio Parts A ,B & C 3. Knowledge Assessments Parts A, B & C 4. Skills Assessments Parts A, B & C 	Power supplies, banana leads, lights, test equipment. Simulated heating, lighting & installation practical boards.
Non-unit specific materials supplied by College:		
<ul style="list-style-type: none"> • AS/NZS 3000 (current edition) • Code of Practice – Safe electrical work on low voltage electrical installations • WA Electrical Requirements 		



Learning and Assessment Plan

Lecturer Name:	Phone:	Email:	Contact times	Campus / Room
Richard Provis	9374 6354	richard.provis@nmtafe.wa.edu.au	08.00 – 16.30	B41

Assessment Summary

Assessment	Title and brief description	Due Date
Part A – Portfolio	Part A – Heating Portfolio	
Part A – Knowledge	Part A – Heating Written - Knowledge	
Part A – Skill	Part A – Heating Skill - Practical	
Part B – Portfolio	Part B – Lighting Portfolio	
Part B – Knowledge	Part B – Lighting Written - Knowledge	
Part B – Skill	Part B – Lighting Skill - Practical	
Part C – Portfolio	Part C – Installation Portfolio	
Part C – Knowledge	Part C – Installation Written - Knowledge	
Part C – Skill	Part C – Installation - Practical	
Resource Book	All worksheets and practicals <u>must</u> be completed.	
Q Tracker	Students must complete a minimum of 50% for UEENEEG033A the “on-the-job” hours in this unit, to achieve competency. A “Grade Not Yet Submitted” result may be recorded <u>until</u> such experience has been recorded. (200 hours / 400 hours)	On-going

You will receive more detailed instructions on each assessment from your lecturer.

The regular learning requirements to develop the skills and knowledge for this unit are outlined below. Please refer to your timetable for session times.

Please note: This plan is to be used as a guide and may be adapted to meet the needs of students. You will be notified of changes as they occur.

Your training will include **structured in and out of class activities*** to be completed for this unit.

**Out of class activities* may include(☑):

- | | |
|--|---|
| <input checked="" type="checkbox"/> online tasks and forums | <input type="checkbox"/> workshop activities |
| <input type="checkbox"/> assessments (when integrated with learning) | <input checked="" type="checkbox"/> projects, assignments portfolio |
| <input checked="" type="checkbox"/> workplace experience | <input checked="" type="checkbox"/> prescribed follow-up activities |
| <input checked="" type="checkbox"/> prescribed reading and research | <input type="checkbox"/> other (please specify) |



Learning and Assessment Plan

SESSIONS (Hours)		TOPIC (incl. Elements addressed)	RESOURCES to be supplied by student (if required)	Structured out of class activities*		
Week/ Session	Hrs			Activity	Hrs	
Week 1	1	1	Introduction to UEENEEG033A- Discuss unit requirements	UEENEEG033A Resource Book		
	2	3	Fixed electrical heating appliances Concepts of heat energy Worksheet 1A-1 pgs. 27 – 28.	UEENEEG033A Resource Book Writing materials & Calculator. PPE & Danger Tag	Complete worksheets & Q Tracker tasks	10
	3	4	Electrical heating control devices Methods of Manual, Automatic and Electronic control. Worksheet 1B-1 pg. 35. Activity 1B-2 Single Pole Three Heat Switch pg. 36. Activity 1B-3 Double Pole Three Heat Switch pg. 37. Activity 1B-4 Simmerstat Control pgs. 38 - 39.	UEENEEG033A Resource Book Writing materials & Calculator. PPE & Danger Tag	Complete worksheets & Q Tracker tasks	10
Week 2	4	4	Electrical water heater operation. Water Heating. Worksheet 1C-1 pg. 47. Worksheet 1D-1 review questions, chapter 6, Electrical Wiring Practice, (7 th edition) Vol. 2, pgs. 185 – 186. Storage HWS practical – service Instantaneous HWS practical - service	UEENEEG033A Resource Book Writing materials & Calculator. PPE & Danger Tag.	Complete worksheets & Q Tracker tasks	10
	5	1	Heating revision	Heating portfolio due		
Week 3	6	3	Heating theory & practical assessments			
	7	2	Lighting concepts and incandescent lighting. Lighting Principles and Terminology. Worksheet 2A-1pgd. 66 – 67. Incandescent Lamps Worksheet 2A-2 pg. 74. Activity 2A-3 pgs. 75 -77.	UEENEEG033A Resource Book Writing materials & Calculator. PPE & Danger Tag	Complete worksheets & Q Tracker tasks	20
	8	2	Florescent low intensity discharge lighting Fluorescent lighting. Show 'Mercury Exposure' medical picture Worksheet 2B-1 pg. 88 Activity 2B-2 pgs. 89 – 92. Activity 2B-3 pgs. 93 -95.	UEENEEG033A Resource Book Writing materials & Calculator. PPE & Danger Tag	Complete worksheets & Q Tracker tasks	20
Week 4	9	5	High intensity discharge lighting High intensity discharge lighting. Worksheet 2C-1 pg. 108 - 109. Activity 2C-2 pgs. 110 – 111. Activity 2C-3 pgs. 112 -113. Activity 2C-4 pgs. 114- 115. Activity 2C-5 pgs. 116 – 117.	UEENEEG033A Resource Book Writing materials & Calculator. PPE & Danger Tag	Complete worksheets & Q Tracker tasks	20



Learning and Assessment Plan

	10	1	Emergency and evacuation lighting. Emergency evacuation lighting and lighting control. Worksheet 2D-1 pg. 118. Worksheet 1E-1 review questions, Chapter 7, Electrical Wiring Practice, (7 th edition) Vol. 2, pgs. 225 – 226.	UEENEEG033A Resource Book Writing materials & Calculator. PPE & Danger Tag	Complete worksheets & Q Tracker tasks	10
	11	1	Lighting revision	Lighting portfolio due		
Week 5	12	3	Lighting theory & practical assessments			
	13	1	Fire protection-residential fire & smoke alarms Smoked detectors. Worksheet 3A-1 pg. 132 - 133	UEENEEG033A Resource Book Writing materials & Calculator. PPE & Danger Tag	Complete worksheets & Q Tracker tasks	10
	14	1	Alternative supplies. Alternative power supplies. Worksheet 3B-1 pg. 141 Worksheet 3B-2 review questions, chapter 3, Electrical Wiring Practice, (7 th edition) Vol. 2, pgs. 83 – 84.	UEENEEG033A Resource Book Writing materials & Calculator. PPE & Danger Tag	Complete worksheets & Q Tracker tasks	10
	15	1	Installation of batteries. Batteries. Worksheet 3C-1 pgs. 153 -154.	UEENEEG033A Resource Book Writing materials & Calculator. PPE & Danger Tag	Complete worksheets & Q Tracker tasks	10
	16	1	Fire protection / Alternative supplies / Battery Summary/Revision	Fire protection / Alternative supplies / Battery portfolio due		
Week 6	17	1	Installations (Fire protection / Alternative supplies / Battery) theory assessment			
	18	1	Lighting circuits. Lighting circuits - Looping at the light / switch junction box One / Two / Three / Multi way lighting circuits. Master on control circuit. Installation practice Worksheet 4A-1 pgs. 163 -164.	UEENEEG033A Resource Book Writing materials & Calculator. PPE & Danger Tag.	Complete worksheets & Q Tracker tasks	10
	19	1	Circuits for socket outlets. Circuits for socket outlets. Worksheet 4B-1 pg. 169.	UEENEEG033A Resource Book Writing materials & Calculator. PPE & Danger Tag	Complete worksheets & Q Tracker tasks	10
	20	1	Final sub circuits and segregation. Final sub circuits and segregation. Chapter 7, Electrical Wiring Practice, (7 th edition) Vol. 1, pgs. 171 – 187. Worksheet 4C-1 pg. 172	UEENEEG033A Resource Book Writing materials & Calculator. PPE & Danger Tag	Complete worksheets & Q Tracker tasks	10
	21	4	Practical installation practice. Installation Activity 4D-1 Given the Design Brief / Schedule pg. 174: Generate a Wiring Panel diagram, on given templates pgs. 175 - 176. Generate a Materials List.	UEENEEG033A Resource Book Writing materials & Calculator. PPE & Danger Tag Resource Book Due	Complete worksheets & Q Tracker tasks	10



Learning and Assessment Plan

Week 7	22	8	Practical installation practice Select correct accessories. Select correct type and size electric cable. Wire-up the Distribution board and accessories as per AS/NZS 3000:2018, WAER. Test installation as per 3017:2007 Complete simulated documentation	UEENEEG033A Resource Book Writing materials & Calculator. PPE & Danger Tag Part C Skills Assessment Due	Complete worksheets & Q Tracker tasks	30
Week 8	23	4	Resits. Any Part A, Part B ,or, Part C Theory Assessment(s) and/or Skills Assessment(s) re-attempt(s)			
Total Hours		54			Total hours out of class activities	400
Total amount of training for this unit: 54 hours of Training plus 16 hours of Assessments					Total 470	

Reasonable Adjustment

We recognise that every student has different learning styles and needs. Please let your lecturer know if there is anything that may have an effect on your learning so they may be able to adjust your plan.

Results and Appeals

Students may lodge an appeal against an academic result. Appeals must be lodged within four weeks of the date of your statement of academic record being issued. Please contact the Student Experience Team relevant to your portfolio area.

Absences

If you are unable to attend any class or assessment session you must inform your lecturer as soon as possible.

If you miss an assessment due to illness, please provide your lecturer with a medical certificate in order to negotiate an alternate time for the assessment.

Plagiarism

Plagiarism is using another person's ideas and words without clearly acknowledging the source of the information. It is not acceptable to submit an assessment that is based on another person's work and claim it as your own. If you submit an assessment that is significantly or recognizably the same or similar in content as submitted by another student (current or past) you may have to submit another assessment.

Assessment Resit/Resubmission

You shall be permitted to have at least two attempts (1 Initial attempt + 1 resit per assessment.) to demonstrate competency against a unit of competency or cluster of units of competency.

To qualify for re-assessment:

you must have made a reasonable attempt to complete the assessment satisfactorily

AND

you must have submitted the original assessment by the due date

OR

you must have attended and participated in the original assessment event

Last updated: 05-10-2019		Version: 3.0
North Metropolitan TAFE 2020		Page 5 of 6



Learning and Assessment Plan

In the case of a re-assessment opportunity, your lecturer will give you a due date for your second attempt. Should you not achieve a Satisfactory result on the second attempt, you will need to re-enroll (R) in the unit.

In certain situations a re-assessment is not possible; please refer to your assessment instructions.

Please note (1): As the practical's for this unit are at **240V AC**, all students **MUST** supply their **Electrical Workers license number (EW number)** and sign the 'Safe Work Method Statement' (SWMS) document.

Please note (2): If you achieve **lower than 50%** for **any** assessment, you will **NOT** be entitled to a re-assessment.

Please note (3): If you fail to reach **50% (200 / 400 hours)** of authorised Q-tracker, you will receive a "**Grade Not Submitted**". At the end of the academic year, if the Q-tracker requirement is **NOT** met, your result will be converted to an "**R**"