

## ***New Zealand Certificate in Automotive Electrical Engineering NZCAU]***

To be read in conjunction with Unitec's Academic Statute and associated Policies and Procedures.

These programme regulations apply to the New Zealand Certificate in Automotive Electrical Engineering [NZCAU] programme, which leads to the New Zealand Certificate in Automotive Electrical Engineering (Level 4) qualification (190 Credits) [Ref: 3460-2].

These regulations come into effect from Semester 1, 2020.

### **1. Ngā Ture Hei Whakaurunga | Admission Requirements**

*Admission  
Requirements  
comply with  
Unitec's  
Admission  
Requirements  
Guidelines.*

To be eligible for admission to this programme, all applicants must meet three admission requirements:

- a. Requirements for either general admission, special admission, or discretionary admission
- b. Any additional Programme specific requirements
- c. English language requirements

#### **1.1 Whakaurunga Whānui | General Admission**

To be admitted to this programme all applicants must be at least 16 years of age on the date of the programme's commencement for the semester in which they wish to enrol (or provide a completed Early Release Exemption form), and meet the following requirements:

- a. achieved the New Zealand Certificate in Automotive Engineering (Level 3); or
- b. equivalent skills and experience.

#### **1.2 Whakaurunga Motuhake | Special Admission**

Applicants must have:

- a. attained the age of 20 years on or before the first day of the semester in which study for the programme is to commence; and
- b. provided sufficient evidence of aptitude or appropriate work or other life experience that would indicate a successful outcome in the qualification.

#### **1.3 Whakaurunga Kōwhiringa | Discretionary Admission**

In exceptional cases an applicant who does not meet the general admission requirements and who has not reached the age of 20 on or before the first day of the semester in which study for the Certificate is to commence may apply for discretionary admission.

In assessing whether to grant discretionary admission in exceptional cases, the primary focus will be on the applicant's level of preparedness for study at the required level.

#### **1.4 Whakaurunga Tautui | Programme Specific Requirements**

There are no Programme Specific requirements for this programme.

#### **1.5 Whakaurunga Reo Pākehā | English Language Admission Requirements**

All applicants must provide evidence that they have the necessary English language proficiency required for the Programme as demonstrated by an equivalence of a minimum of 12 credits at NCEA Level 1 in English.

International applicants and any Domestic applicant for whom English, Māori or NZ Sign who have not completed the New Zealand Certificate in Automotive Engineering (Level 3) must also provide evidence that they have the necessary English language proficiency required for the Programme as described in [NZQA Rules](#) and on the Unitec [English Language Requirements for International Students](#) Web-page.

<p><b>2. Paearu Kōwhiri Tukanga   Selection Criteria &amp; Process</b></p> <p><i>Selection Criteria and Processes comply with Unitec’s Admission Requirements Guidelines.</i></p>	<p><b>2.1 Paearu Kōwhiri   Selection Criteria</b></p> <p>When the number of eligible applicants for admission exceeds the number of places available, preference will be given to those who are already employed in the automotive industry.</p> <p><b>2.2 Tukanga Kōwhiri   Selection Process</b></p> <p>Selection will be made by Unitec staff members with the delegated authority to offer places to applicants. These staff members will select students on the basis of written information supplied on the enrolment form. At the discretion of the staff members, an interview (face-to-face or electronic) may be required. A list of delegated staff members is maintained by the Programme Academic Quality Committee (PAQC) responsible for the programme.</p>																																																																																				
<p><b>3. Ngā Ture Hei Whakawhiwhi Tohu Mātauranga   Requirements for the Award of the Programme</b></p> <p><i>Requirements comply with Unitec’s Programme Completion and Awards Policy and associated procedure.</i></p>	<p><b>3.1 Whakaemi Tūtukitanga   Credit Accumulation</b></p> <p>To be awarded the New Zealand Certificate in Automotive Electrical Engineering, a student must successfully complete a minimum of 190 credits in the pattern set out in Table 1 from the courses set out in Table 2.</p> <p><b>Table 1: Credit Requirements for New Zealand Certificate in Automotive Electrical Engineering</b></p> <table><tr><th>Level</th><th>Compulsory Credits</th><th>Elective Credits</th><th>Total Credits</th></tr><tr><td>4</td><td>190</td><td>0</td><td>190</td></tr><tr><td></td><td></td><td></td><td><b>190</b></td></tr></table>	Level	Compulsory Credits	Elective Credits	Total Credits	4	190	0	190				<b>190</b>																																																																								
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<p><b>Table 2: Course Details – New Zealand Certificate in Automotive Electrical Engineering</b></p> <p>Compulsory courses are shown in <b>bold</b> and Elective courses in <i>italics</i>.</p> <table><tr><th>Course No</th><th>Course Name</th><th>Credits</th><th>Pre- requisites</th><th>Co-requisites</th><th>Restrictions</th></tr><tr><td colspan="6">Level 4</td></tr><tr><td>ENVS4501</td><td><b>Effective Workplace Maintenance &amp; Safety</b></td><td>15</td><td></td><td></td><td></td></tr><tr><td>ENVS4515</td><td><b>Electronic Steering and Suspension Systems</b></td><td>15</td><td></td><td></td><td></td></tr><tr><td>ENVS4516</td><td><b>Braking and Electronic Control</b></td><td>15</td><td></td><td></td><td></td></tr><tr><td>ENVS4528</td><td><b>Heating Ventilation and Air Conditioning</b></td><td>15</td><td></td><td></td><td></td></tr><tr><td>ENVS4529</td><td><b>Starting, Charging and Batteries</b></td><td>20</td><td></td><td></td><td></td></tr><tr><td>ENVS4530</td><td><b>Petrol Fuel and Emission Control Systems</b></td><td>15</td><td></td><td></td><td></td></tr><tr><td>ENVS4520</td><td><b>Body Control Electronics System Software</b></td><td>20</td><td></td><td></td><td></td></tr><tr><td>ENVS4531</td><td><b>Vehicle Safety Systems</b></td><td>15</td><td></td><td></td><td></td></tr><tr><td>ENVS4532</td><td><b>High Voltage Systems</b></td><td>15</td><td></td><td></td><td></td></tr><tr><td>ENVS4523</td><td><b>Electronic Driveline Systems</b></td><td>15</td><td></td><td></td><td></td></tr><tr><td>ENVS4533</td><td><b>Electrical and Electronic Systems</b></td><td>15</td><td></td><td></td><td></td></tr><tr><td>ENVS4534</td><td><b>Diesel Fuel and Emission Control Systems</b></td><td>15</td><td></td><td></td><td></td></tr></table>		Course No	Course Name	Credits	Pre- requisites	Co-requisites	Restrictions	Level 4						ENVS4501	<b>Effective Workplace Maintenance &amp; Safety</b>	15				ENVS4515	<b>Electronic Steering and Suspension Systems</b>	15				ENVS4516	<b>Braking and Electronic Control</b>	15				ENVS4528	<b>Heating Ventilation and Air Conditioning</b>	15				ENVS4529	<b>Starting, Charging and Batteries</b>	20				ENVS4530	<b>Petrol Fuel and Emission Control Systems</b>	15				ENVS4520	<b>Body Control Electronics System Software</b>	20				ENVS4531	<b>Vehicle Safety Systems</b>	15				ENVS4532	<b>High Voltage Systems</b>	15				ENVS4523	<b>Electronic Driveline Systems</b>	15				ENVS4533	<b>Electrical and Electronic Systems</b>	15				ENVS4534	<b>Diesel Fuel and Emission Control Systems</b>	15			
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	<p><b>3.2 Mahi Waehanga Pāhekoheko   Integrated and Work-based components</b></p> <p>Students who enrol part-time as ‘Managed Apprentices’ will learn on the job during their employment in an automotive repair workshop. Apprentices will be supported in their workplace through supervised on-job training from employers, supervisors or qualified co-workers, as well as regular workplace visits from Unitec’s Automotive Industry Liaison and Workplace Assessors. Managed apprentices will also be supported off-site with additional teacher-directed learning of theory which will augment any learning that takes place in the workplace.</p>																																																																																				

	<p><b>3.3 Mahi Akoranga   A Wāhanga   Course Load per Semester</b></p> <p>The normal full-time course load is 60 credits per semester, or 75 credits with the approval of the relevant academic authority.</p> <p><b>3.4 Whakaurunga Takiwā   Enrolment Periods</b></p> <p>The normal enrolment period is 1.5 years (full-time study) or 3 years (part-time study). Students who are prevented by ill health, or other cause, from completing the programme requirements within the maximum period of enrolment, the relevant academic authority may approve suspension of enrolment for up to a maximum of one semester.</p> <p>The maximum period to complete this Programme is six years.</p>												
<p><b>4. Tūtukitanga Whakamihi   Credit Recognition</b></p> <p><i>Credit Recognition complies with Unitec’s Assessment, Moderation and Grades Policy and associated procedure.</i></p>	<p><b>4.1 Whakawhiti Tūtukitanga   Cross Credit</b></p> <p>Credits will not be awarded for successful study that took place more than 5 years prior to the date of first enrolment in the programme.</p> <p>a. A student may be awarded credits or exemptions in recognition of successful equivalent study, at the same or a higher level in the context of another programme.</p> <p>b. The credit recognition may be:</p> <ul style="list-style-type: none"><li>i. specified, where there is direct equivalence of the learning outcomes of a completed course and a course in the programme; or</li><li>ii. unspecified, where the previous study has taken place in a programme with a similar philosophy but there is no exact match in the programme’s courses.</li></ul> <p><b>4.2 Aromatawai Tōmua   Assessment of Prior Learning (APL)</b></p> <p>Assessment of Prior Learning is available for all courses in this programme. APL decisions will be made on a case-by-case basis under the Unitec Assessment of Prior Learning Procedure.</p>												
<p><b>5. Waeture Aromatawai   Assessment Regulations</b></p> <p><i>Assessment Regulations comply with Unitec’s Assessment, Moderation and Grades Policy and associated procedure.</i></p>	<p><b>5.1 Paparahi Aromatawai   Assessment Basis</b></p> <p>Assessment in this programme is competency based. Students must achieve all of the outcomes in competency-based assessment in order to pass that course.</p> <p><b>5.2 Ākoranga Taumata   Course grades</b></p> <p>Course grades will be determined according to the following criteria. Participants must achieve all of the outcomes in order to pass competency-based assessment.</p> <p><b>Table 3: Competency based 2-point assessment system</b></p> <table><tr><th>Grade</th><th>Meaning</th><th>Result</th></tr><tr><td>C</td><td>Competent</td><td>Credits Earned</td></tr><tr><td>NC</td><td>Not Competent</td><td>No Credits Earned</td></tr></table>	Grade	Meaning	Result	C	Competent	Credits Earned	NC	Not Competent	No Credits Earned			
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	<p><b>5.3 Paearu Taumata   Grade Criteria</b></p> <p>Students may be awarded one of the following grades for a course:</p> <p><b>Table 4: Grade Criteria</b></p> <table><tr><th>Grade</th><th>Meaning</th><th>Criteria</th></tr><tr><td>CR</td><td>Credit Recognition</td><td>The student has applied for and been awarded a credit recognition from another qualification</td></tr><tr><td>CTG</td><td>Continuing</td><td>The Course runs for more than one semester and the final Summative Assessment has not yet occurred. No Credits earned</td></tr><tr><td>DEF</td><td>Deferred</td><td>The student has approval to complete a Course Assessment beyond the schedule date. Unless an exception has been approved, any Deferred Grade remaining on a student’s record beyond a duration equal to that of the original course will be changed to the grade to which the Student would otherwise be entitled. No Credits earned.</td></tr></table>	Grade	Meaning	Criteria	CR	Credit Recognition	The student has applied for and been awarded a credit recognition from another qualification	CTG	Continuing	The Course runs for more than one semester and the final Summative Assessment has not yet occurred. No Credits earned	DEF	Deferred	The student has approval to complete a Course Assessment beyond the schedule date. Unless an exception has been approved, any Deferred Grade remaining on a student’s record beyond a duration equal to that of the original course will be changed to the grade to which the Student would otherwise be entitled. No Credits earned.
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	DNC	Did not Complete	The grade DNC (Did Not Complete) is recorded if a student has either withdrawn after 75% of the scheduled Course duration; or not attempted a compulsory item of Assessment within a Course. No Credits earned.
	ES	Student Exchange	The Student has completed an approved inter-institutional exchange and it is not appropriate for another grade to be awarded. No Credits earned.
	NGA	No Grade Associated	Course assessment and reporting of results are not required for this course or are carried out by an external agency. No Credits earned
	R	Restricted Pass	The student has been awarded a restricted pass subject to Relevant clause in this schedule. Credits earned.
	W	Withdrawn	The student withdraws from a Course after 10% of the scheduled Course duration and up to, or at, the date at which 75% of the scheduled Course has passed. No credits earned.
	#	Estimated Grade	If any portion of Summative Assessment has been estimated, the final grade will be an estimated grade, and annotated “#” on the Student’s Academic Record.
<b>6. Aromatawai Mahinga   Assessment Procedures</b>  <i>Assessment Procedures comply with Unitec’s Assessment Moderation and Grades Policy and associated procedure.</i>	<b>6.1 Ākoranga Aromatawai   Course Assessment</b> Courses employ both formative and summative assessment activities. Formative assessments do not contribute to the final grade for a given course. All summative assessment elements are compulsory unless otherwise approved and noted in course information.  Students must attempt all compulsory assessment activities in order to pass and receive credit for any course. Students who do not attempt a compulsory item of assessment may be awarded a ‘Did Not Complete’ (DNC) for the whole course and may not earn any credits.  <b>6.2 Aromatawai I Roto I Te Reo   Assessment in Te Reo</b> All students have the right to submit any summative assessment task in Te reo Māori. The process for submission of summative assessment work in Te reo Māori is governed by the Unitec Assessment in Te Reo Māori procedure and detailed in course material.  <b>6.3 Tāpaetanga Tōmuri   Submission and late submission of work</b> <ol style="list-style-type: none"> <li>The due dates for all summative assessment work will be notified at the commencement of each course.</li> <li>Any assessment that is submitted late (and does not have a prior approved extension) will be penalised by a deduction of 10% per day of the participants assignment mark, up to five (5) days, inclusive of weekends.</li> <li>Applications for extensions must be made by according to procedure noted in Student Handbooks and course documentation.</li> <li>Any extension will be carried out within a specified time period as agreed with the relevant academic authority and no further extensions will be granted.</li> <li>No assessment will be accepted five (5) days (inclusive of weekends) after the due date. If the assessment is not compulsory, the participants will receive a ‘zero’ grade for that assessment. If the assessment is compulsory, then the participants will receive a Did Not Complete (DNC) grade for the entire course.</li> </ol> <b>6.4 Whakamātautau Anō   Resubmission or Reassessment</b> A student may apply to undertake a resubmission/reassessment for a failed assessment within 5 days of receiving their marked assessment. The following conditions apply: <ol style="list-style-type: none"> <li>two resubmissions of written theory tests and one resubmission of written assignments and practical assessments are permitted.</li> </ol>		

- b. Any approved resubmission/reassessment will be carried out within a specified time period as agreed with the relevant academic authority.
- c. In all cases for resubmission, the original marked assessment will accompany resubmitted assessment. If resubmitted work is not accompanied by the original marked assignment, the resubmitted work will not be marked and the original grade will stand.
- d. The maximum grade for any resubmission/reassessment of an assessment is the lowest pass grade.
- e. Assessments that are handed in late are not eligible for resubmission or reassessment.

#### **6.5 Āhuatanga Aromatawai Motuhake | Affected Performance Consideration**

A student may apply for Affected Performance Consideration (APC) if:

- The student is unable to attend an examination, compulsory assessment or fixed time and place assessment activity due to illness, injury, bereavement or other critical circumstances
- The student's preparation for, or performance in an examination or any summative assessment has been seriously impaired due to circumstances beyond their control

Applications for APC are made by a student within 5 working days of the affected assessment event. Decisions to approve an APC and to apply any remedy are made according to the Assessment and Grading Procedures and Regulations.

#### **6.6 Pāhi Rāhui | Restricted Pass**

A restricted pass may be awarded in a course which was narrowly failed and where there is ample evidence that marginal failure is compensated by good overall performance.

- a. A restricted pass is awarded at the discretion of the relevant academic authority and may not be applied for directly by a student.
- b. The relevant academic authority may, at their discretion, use a restricted pass to:
  - set conditions for future performance in other courses
  - prevent a student from using a restricted pass to meet the prerequisite requirements of another course.
- c. A student may decline the award of a restricted pass by notifying the relevant academic authority in writing not later than 20 working days from notification of the results.

#### **6.7 Tuaruatanga | Repeating Courses**

Students who are repeating a Level 1–8 course would normally be required to submit all assessment items. In some cases, with the prior approval of the relevant academic authority, students may not be required to repeat an equivalent assessment item that they had previously passed. This should be negotiated within the first two weeks of the commencement of the course and will specify any course grade that will be carried over.

Students may enrol and repeat a course that they have failed only once. Permission to enrol for a third time is governed by Exclusion provisions below.

#### **6.8 Whakakorenga | Exclusions**

No student will be allowed to enrol in any course more than twice unless there are exceptional circumstances approved by the relevant academic authority.

- a. Any Student who fails to achieve at least 50 per cent of the credits that he or she is enrolled in in any 12-month period may be excluded by the relevant Academic Authority from re-enrolling in any further courses. The decision whether students can re-enrol in further courses will be based on a student's likelihood of succeeding in further study and will be made by the relevant Head of School.
- b. When calculating the 12-month period in a. above, Unitec reserves the right to include any relevant time spent by the Student studying at another tertiary institution.
- c. A Student who has not achieved a Pass Grade in the same Course on two occasions shall not be enrolled again for that Course except with the permission of the relevant Academic Authority.
- d. The relevant Academic Authority will advise the Student in writing of their decision, and the reasons for such decision, and any orders made.

	<p><b>6.9 Examination Regulations</b> There are no formal examinations in this programme.</p> <p><b>6.10 Tono Pira   Appeals</b> Students may appeal the decisions made under these regulations in accordance with the Student Appeal Procedure.</p>
<p><b>7. Whakaritenga Whānui   General Provisions</b></p>	<p><b>7.1 Whakamāramatanga ā-kaupapa   Definition of Terms</b> In these regulations, unless the context otherwise requires, the following definitions shall apply:</p> <ul style="list-style-type: none"> <li>• ‘Relevant academic authority’ refers to an individual or role holder, or in some cases a committee, who have been delegated the authority to make a decision within a specific circumstance. A schedule of the various relevant academic authority delegations is maintained by the Programme Academic Quality Committee responsible for the Programme.</li> </ul> <p><b>7.2 Āhuatanga Tauwhirowhiro Ritenga   Transitional Arrangements</b> Candidates currently enrolled in programmes leading to the replaced National or Unitec programmes in automotive engineering who are unable to complete their programme by closure date of their programmes shall transfer their existing achievement to this or a replacing programme as appropriate. No candidates will be disadvantaged by these transition arrangements.</p> <p>For candidates currently enrolled in Version 1 of the New Zealand Certificate in Automotive Electrical Engineering (Level 4) who are unable to complete their programme by closure date their existing achievement will be transferred to this programme (Version 2) as appropriate. No candidates will be disadvantaged by these transition arrangements.</p>