



# PROGRAMME REGULATIONS

## Programme Schedule

### Certificate in Automotive and Mechanical Engineering

To be read in conjunction with Unitec [Generic Certificate Regulations](#).

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#### 1. Programme Schedule

This schedule applies to the Certificate in Automotive and Mechanical Engineering (CertAME) (Level 3, 120 credits).

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#### 2. Programme Specific Admission

##### 2.1 Specific Admission

In addition to general admission requirements, applicants must have at least three years' secondary schooling, and recommended 10 NCEA credits in Mathematics at Level 1.

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#### 3. Selection Criteria

Admission to the Certificate is limited by the number of places available.

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#### 4. Selection Process

Applicants that meet admission requirements will be enrolled in order of receipt of their applications.

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## 5. Requirements for the Award of the Qualification

### 5.1 Certificate in Automotive and Mechanical Engineering

To be awarded the Certificate in Automotive and Mechanical Engineering (level 3, 120 credits) a student must have successfully complete all courses listed in Table 1 within 5 years of first enrolment.

**Table 1: Course Details: Compulsory and Elective Courses**

Compulsory courses are shown in **bold** text. Elective courses are shown in *italics*.

Course No.	Course Name	Credits	Pre-requisites	Co-requisites
<b>TTEC3201</b>	<b>Electrical Technology</b>	<b>15</b>	<b>Nil</b>	<b>Nil</b>
<i>TTEC3202</i>	<i>Engine Technology</i>	<i>30</i>	<i>Nil</i>	<i>Nil</i>
<i>TTEC3203</i>	<i>Engineering Technology</i>	<i>30</i>	<i>Nil</i>	<i>Nil</i>
<i>TTEC3204</i>	<i>Industry Practice</i>	<i>15</i>	<i>Nil</i>	<i>Nil</i>
<i>TTEC3205</i>	<i>Internal Combustion Engines</i>	<i>15</i>	<i>Nil</i>	<i>Nil</i>
<b>TTEC3206</b>	<b>Vehicle Technology</b>	<b>15</b>	<b>Nil</b>	<b>Nil</b>
<i>TTEC3207</i>	<i>Electrical Circuits</i>	<i>15</i>	<i>Nil</i>	<i>Nil</i>
<i>TTEC3208</i>	<i>Electrical Circuits and Emission control</i>	<i>15</i>	<i>Nil</i>	<i>Nil</i>
<i>TTEC3209</i>	<i>Engine tuning and Fuel Systems</i>	<i>15</i>	<i>Nil</i>	<i>Nil</i>
<i>TTEC3210</i>	<i>Engine electronic management systems</i>	<i>15</i>	<i>Nil</i>	<i>Nil</i>
<i>TTEC3211</i>	<i>Engine Systems</i>	<i>15</i>	<i>Nil</i>	<i>Nil</i>
<i>TTEC3212</i>	<i>Starting and Charging</i>	<i>15</i>	<i>Nil</i>	<i>Nil</i>
<i>TTEC3213</i>	<i>Automotive electrical</i>	<i>15</i>	<i>Nil</i>	<i>Nil</i>
<i>TTEC3214</i>	<i>Brakes and Steering</i>	<i>15</i>	<i>Nil</i>	<i>Nil</i>
<i>TTEC3215</i>	<i>Engine Overhaul</i>	<i>15</i>	<i>Nil</i>	<i>Nil</i>
<i>TTEC3216</i>	<i>Transmissions</i>	<i>15</i>	<i>Nil</i>	<i>Nil</i>
<i>TTEC3217</i>	<i>Vehicle body</i>	<i>15</i>	<i>Nil</i>	<i>Nil</i>
<i>TTEC3218</i>	<i>Motorsport Auto Industry</i>	<i>15</i>	<i>Nil</i>	<i>Nil</i>
<i>TTEC3219</i>	<i>Motorsport Engineering and Underbody</i>	<i>15</i>	<i>Nil</i>	<i>Nil</i>
<i>TTEC3220</i>	<i>Motorsport Paint</i>	<i>15</i>	<i>Nil</i>	<i>Nil</i>
<i>TTEC3221</i>	<i>Motorsport Panel</i>	<i>15</i>	<i>Nil</i>	<i>Nil</i>

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## 6. Assessment of Prior Learning

Assessment of Prior Learning is available for all courses in this certificate.

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## 7. Assessment

### 7.1 Assessment basis

Assessment is achievement based.

## 7.2 Calculation of course grades

- a. All student work will be graded using grade related criteria.
- b. Course grades are allocated according to the following tables:

**Table 2: Course Grades**

Grade	Result	Criteria
<b>A</b>	Achieved with distinction	<ul style="list-style-type: none"> <li>• Assessments are comprehensive and perceptive in their treatment of the topic.</li> <li>• There is an in-depth understanding of the issues involved.</li> <li>• The treatment of information and the argumentation is at a high level.</li> <li>• The depth of information given is at a high level.</li> <li>• There is evidence of originality and creativity.</li> <li>• There is evidence of wide reading, and the ability to integrate and combine theory and experience in a wide range of situations.</li> <li>• There is a high level of accuracy.</li> <li>• There is a very good level of appropriate communication and presentation.</li> <li>• Integration and application of advanced technical skills produce a high quality finish to tasks.</li> <li>• Written work is accurately referenced.</li> </ul>
<b>B</b>	Achieved with merit	<ul style="list-style-type: none"> <li>• Assessments are comprehensive and perceptive in their treatment of the topic although there may be at one or two weak points.</li> <li>• There is a clear understanding of the issues involved.</li> <li>• There is evidence of reading but the integration of theory with practice is limited.</li> <li>• Good level of appropriate communication and presentation is demonstrated.</li> <li>• Written work is generally accurately referenced but there may be omissions or errors of a minor nature.</li> <li>• Overall, assessments are clearly organised, although there may be some sections lacking in this respect.</li> <li>• Integration and application of technical skills show signs of good finish to tasks.</li> </ul>
<b>C</b>	Achieved	<ul style="list-style-type: none"> <li>• The task has been fulfilled in that the essential points have been introduced, but there are several aspects missing, undeveloped or inaccurate.</li> <li>• Assessments are generally competently presented although there are minor omissions.</li> <li>• There is a lack of ability to contrast and compare theories and ideas.</li> <li>• The work communicates an awareness of the main ideas or areas of thought but lacks critical analysis.</li> <li>• The organisation and quality of ideas may be limited.</li> <li>• Application of practical skills is adequate but lacks quality of finish to tasks.</li> </ul>
<b>D</b>	Not achieved	<ul style="list-style-type: none"> <li>• The task has not been fulfilled and objectives achieved.</li> <li>• Information is presented indiscriminately.</li> <li>• There are frequent inaccuracies.</li> <li>• There are serious problems with the presentation or the referencing.</li> </ul>

Grade	Result	Criteria
		<ul style="list-style-type: none"> <li>• There is high reliance on retelling of source material.</li> <li>• Application of technical skills is limited to produce</li> </ul>

- c. Students may be awarded one of the following grades for a course if they meet the criteria described.

**Table 2: Grade Criteria**

Grade	Meaning	Criteria
<b>CR</b>	Credit Recognition	The student has applied for and been awarded a credit recognition from another qualification
<b>DEF</b>	Deferred	The course result has been deferred
<b>W</b>	Withdrawn	If a student withdraws from a course after the 10% date of the course is completed and up to or at the 75% date of the course. No credits earned.

- d. The final grade for a course shall be calculated from the aggregation of all summative assessment activities.

### 7.3 Resits and resubmissions

- Students are entitled to one resit of written theory tests and one resubmission of written assignments and practical assessments.
- All resits and resubmissions will be carried out within two weeks from when the original assessment was returned, or results made available. In all cases, the original marked assignment will accompany resubmitted assignments. If resubmitted work is not accompanied by the original marked assignment, the resubmitted work will not be marked and the original grade will stand.
- The maximum grade for any resit/resubmission of assessment is „C” . In all cases the grade achieved on resit/resubmission will be the grade used in calculating the overall course grade.
- Students will be notified by the course coordinator of their need to undertake a resit or resubmission within 7 days of the assessment event.

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## 8. Commencement

These regulations came into force in Semester 2, 2015.