

OTUMOETAI COLLEGE
NCEA PRODUCT DEVELOPMENT DESIGN METAL LEVEL 3 – (L3PROM) 2019

PRODUCT DEVELOPMENT DESIGN METAL – L3PROM					
<i>Course Relationship to the National Vocational Pathways</i>					
Construction & Infrastructure 22	Manufacturing & Technology 22	Primary Industries 12	Services Industries 0	Social & Community Services 0	Creative Industries 18
<i>Course Entry</i>		Level 2 Technology Wood or Metal and/or the approval of HOD Technology.			
<i>Course Overview</i>		This course is centered around the “Evolocity” Electric car competition. The students work in groups and design and build an Electric Car to enter into the competition. They do all the design, trialing and testing of materials and techniques to produce a successful outcome. Students will work predominantly with metal with the option to use other materials. There is a clear focus on carefully planning out well designed and constructed projects. This is an academic course ideal for students wishing to progress to university engineering, or any other design or technology based career. The students will gain practical skills from this course.			
<i>Assessment</i>		This course will be assessed to a selection of Level 3 Technology Achievement Standards . Assessment is a combination of both internally and externally assessed standards. Students will have the opportunity to gain up to 20 credits at Level 3. Technology is an approved domain subject and is appropriate for students intending to study at university.			
<i>Cost Materials</i>		Cost for course materials that will be consumed or taken home [e.g.: Steel, gas, wood, paints, sandpaper and other project materials]			\$130.00
		NB: For students who design, larger, or more complex projects, the school fee may not cover the total cost of their materials. Any students in this situation will be invoiced later in the year on a case by case basis.			

Achievement Standard	Credits	Assessment Mode	Title of Standard
AS91610	6	Internal	Develop a conceptual design considering fitness for purpose in the broadest sense (Literacy)
AS91611	6	Internal	This achievement standard involves developing a prototype considering fitness for purpose in the broadest sense (Literacy)
AS91612	4	External	This achievement standard involves demonstrating understanding of how technological modelling supports technological development and implementation (Literacy)
AS91620	6	Internal	Implement advanced procedures using resistant materials to make a specified product with special features <i>NB: (Substitute standard for individual applicable students)</i>

SENIOR ASSESSMENT PROCEDURES

Legitimate Absences

(e.g., official interschool exchanges, official work experience, and explained absences).

The teacher may choose to:

- Allow for such circumstances by scheduling tests to days not affected by such approved absences.
- Give an equivalent test to the student(s) concerned on the student'(s)' return to school following an approved absence (providing reasonable notice is given).

Assessment Opportunity

Students are expected to complete assessment activities on or before the date they are due. A further assessment opportunity will only be offered to classes where practicable. The final decision for this rests with the Head of Department. In some instances, the on-going collection of evidence by the teacher of the students' knowledge or skills may provide sufficient evidence. Such evidence, for example, may be collected by the teacher in conferencing with individual students.

Derived Grades

These are only available for external standards and will depend on evidence available from practice examinations and other assessed work completed in class that is related to the same learning outcomes.

Work Deadlines and Lateness

Teachers will set a date by which all internally assessed qualification tasks must be completed and handed to the teacher. Late work will not be accepted. Any extension must be negotiated 48 hours before the due date for the completion of the work. You will require evidence to support your request for extra time. The classroom teacher will only grant an extension in the case of genuine illness or other exceptional circumstances.

How to Appeal a Grade

Appeals against internally assessed grades awarded should be made following the procedure outlined in the school policy on appeals. Students wishing to appeal a grade must do so within 48 hours of receiving notification of their assessed grade.

Storage of Student Work

The Technology Department will retain all student assessment material until it is no longer required by NZQA for moderation purposes.

Authenticity

Except where specified for some group tasks, all work is to be your own work and all assessment tasks will require a signed statement of authenticity from students.

Marking and Moderation

Students' work will be marked by their subject teacher following NCEA assessment schedules. For marking consistency, some assessment tasks may be marked by the same teacher for all classes, or two or more teachers may be given a different section of the assessment to mark for all students. Moderation will take place at the beginning and end of each assessment as per Otumoetai College specification.

Resources and Texts

Generally, all text resources, and practical equipment will be supplied by the Technology/Hard Materials Department. If students wish to use additional texts, resources or equipment, this is permissible.

Welcome to the Technology Department. We have a large range of courses for students to pursue and a dedicated team of supportive, expert teachers to guide you.