

# **FAHS – FEILDING HIGH SCHOOL**

## **YEAR 12 ENGINEERING – STUDENT INFORMATION 2010**

February 2010

Students will have the opportunity to complete project work that is assessed via Unit Standards in the Tools 4 Work programme via Competenz.

### **COURSE OVERVIEW**

|        | Projects & Unit Standards  | Credit                           | Assessment Deadline .              | Reassessment Deadline. |
|--------|--|----------------------------------|------------------------------------|------------------------|
| Term 1 | Minibike project:<br>US 21911 Demonstrate knowledge of safety on engineering worksites<br>US 2430 Draw and interpret engineering sketches under supervision<br>US 2432 Construct engineering plane geometric shapes.   | 1Int<br>4 Int<br>3 Int           | Week 8<br>Term 1                   | Week 10<br>Term 1      |
| Term 2 | Minibike project:<br>US 20917 Demonstrate basic knowledge of engineering materials<br>US 21905 Demonstrate knowledge of Mechanical Engineering trade<br>Calculation<br>US 2396 Select, use and maintain portable hand held engineering power tools.  | 2 Int<br>4 Int<br>4 Int          | Week 8<br>Term2                    | Week 10<br>Term 2      |
| Term 3 | Minibike project:<br>US 2395 Select, use, and care for engineering hand tools.<br>US4433 Select, use, and care for simple measuring devices L1<br>US 4435 Select, use, and care for Engineering dimensioning equipment<br>Us 4436 Select, use, and care for Engineering marking out equipment. | 4 Int<br>2 Int<br>3 Int<br>4 Int | Week 3<br>Term 3<br>Week8<br>Term3 | Week 10<br>Term 3      |
| Term 4 | Minibike project:<br>US2387 Assemble mechanical components under supervision   | 2 Int                            |                                    | Week 4<br>Term 4       |

### **MATERIALS AND EQUIPMENT**

All students must have for each lesson:

Pencil, eraser, pens( blue & red), rule. Covered shoes for working in the workshop.

### **HOMEWORK**

It is absolutely essential that regular homework be done, if students are to have success in Engineering. Because Engineering continually builds on previous knowledge, students need to continue to review, refine, and develop their skills and techniques. Homework will be related directly to the design briefs that students undertake in class.

### **SUCCESS THIS YEAR WILL DEPEND ON**

#### **Background knowledge**

- If students find that they are unable to do some of the assumed work, they must take immediate steps and let the teacher know. Reading relevant textbooks, practice exercises and completing work for their project will be necessary to build understanding and to gain experience.

#### **Work in class**

- Students need to work hard each period. It is extremely important that any missed work is caught up immediately. If a student knows in advance that they will be absent they should inform the teacher so that appropriate work and guidance can be set. Completion by the deadlines is vital.
- Project commitment document signed.

**FINALLY**

Don't be afraid to ask your teacher for help. This includes homework, assignments, investigations etc. where they may be able to suggest a new idea to think about or where you may be able to look up something to help you.

If you have any queries about the course or concerns about progress please contact Mr Emmerson.

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**YEAR 12 Engineering – ASSESSMENT POLICY AND PROCEDURES**

February 2010

**ATTENDANCE**

You are expected to attend class on a regular basis as set out in the school policy on attendance. If you are absent on the day of an Assessment deadline you must either:

    Arrange for your work to be delivered to the school office, or, if this is not possible

    Contact Mr Smyth (Administration Dean) at school: ph 323 4029 extn 750 to make alternative arrangements.

**AUTHENTICITY**

Assessment work submitted must be your **own** work. Where evidence indicates that the work submitted is not your own work the procedures in the *NCEA student handbook* will be followed.

**APPEALS**

On checking of your Unit Standard grade when the assessment task is returned to you, and you are unhappy with the grade given then, you should follow the procedures in the *NCEA student handbook*.

**RE-ASSESSMENT**

Internal Engineering assessment is based on your evidence. Re-assessment opportunities will occur each term only if a Unit Standard grade has not been awarded.

**VERIFYING GRADES**

You will be required to verify the grades that you have been awarded by signing the result slip attached to the assessment schedule for internally assessed work. You will also be required to verify the grades that are submitted to NZQA.

**RETENTION OF WORK SUBMITTED FOR ASSESSMENT**

All internal assessment material will be retained until it is no longer needed for NZQA – Competenz moderation purposes.

**STUDENT OBLIGATIONS**

Ensure that you understand the requirements for each assessment being completed.

Check thoroughly the accuracy of the grade awarded for assessment tasks when it is returned for checking.

Follow the procedures in the *NCEA student handbook* if you are unhappy with the grade awarded after you have discussed your concern with your teacher.

Fill in the assessment record as work is returned.

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**STUDENT DECLARATION:**

Date:     /                 /                 .

I have read the Level 2 Engineering student information sheets.

Student  
Name \_\_\_\_\_ Signature

**Internal Achievement: Y12 Student Assessment Record 2010 - Level 2 Engineering.**

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| Term 2 | Minibike project:<br>US 20917 Demonstrate basic knowledge of engineering materials<br>US 21905 Demonstrate knowledge of trade calculation & units for mechanical engineering trades.<br>US 2396 Select, use and maintain portable hand held engineering power tools.               | 2Int<br>4Int<br>4Int             | Week 8<br>Term2                    | Week 10<br>Term 2      |
| Term 3 | Minibike project:<br>US 2395 Select, use, and care for engineering hand tools.<br>US4433 Select, use, and care for simple measuring devices L1<br>US 4435 Select, use, and care for engineering dimensioning equipment<br>Us 4436 Select, use, and care for marking out equipment. | 4 Int<br>2 Int<br>3 Int<br>4 Int | Week 3<br>Term 3<br>Week8<br>Term3 | Week 10<br>Term 3      |
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