

## SAMPLE INTERNALLY ASSESSED UNIT COMMENTARY

### UNIT 7 - ENGINEERING THE FUTURE





**Diploma – Principal Learning  
Engineering**

**Level 1 / Unit 7  
Engineering the future (ENG1U7)**

**Sample Internally Assessed Unit Commentary**

*Please note that the following internal tasks, responses and examiner commentary are provided as examples only for the purpose of assisting teachers delivering Diploma Principal Learning. A direct relationship between the marks/commentaries and a unit grade cannot be made at this stage, since grade boundaries will be determined at the award meetings at the end of each series.*

## **ENGINEERING DIPLOMA SAMPLE ASSESSMENT TASKS MODERATION ASSESSMENT EXERCISE OCTOBER 2008**

In moderation remember that we look to agree with centres as much as possible and to give credit for meeting the assessment criteria and evidence requirements at any point in the work being viewed. We have a 'Holistic best fit' approach to the assessment criteria. Judgements made must always consider the recommended times given in the specification for assessment. It is not essential to meet all bullet points in a mark band for a mark in that band to be awarded.

### **FOUNDATION**

**LEVEL 1 UNIT 7 Engineering the future (ENG1U7) 15 hour task.  
Four Evidence requirements and two Assessment criteria topics.**

### **ARMOUR MATERIALS TASK**

This is not an easy read at times and includes a lot of writing. However, a good range of materials including 'smart' materials are considered. It discusses advantages/ disadvantages/ construction in armour. Some discussion is shallow in places. The summary recommends 'shape memory alloy'. This addresses Evidence requirements (EV)1 & 2 and assessment criteria (AC)1.

Information chart on alternative power sources and conclusion recommendation are to use wind power (windmill). This addresses EV2 and AC2.

The PowerPoint presentation on Alternative energy sources with its rather shallow evaluation of teamwork experience addresses EV2&3 and AC2.

No evidence of requirement EV4 "a presentation of one aspect of re-cycling". This is a band 2 requirement. However, some credit is given for 'disposal' in initial investigation. To achieve a high mark in the unit the specification clearly states the need to address all evidence requirements.

**Assessment Criteria One:** The work fits just in band 3, as it fits most of band 2 and parts of band 3 "informative summary".

**18 marks awarded for Developments in new materials and engineering technology.**

**Assessment Criteria Two:** The work fits in band two. It is shallow in "evaluation of personal performance in team" and has limited presentation of re-cycling. However, it does address a band three requirement of "consideration of several energy resources".

**16 marks awarded for Environmental issues.**

**Final Total mark 34 out of 48**