**Industrial Technology – Metal and Engineering 2021-2022**

| **Task number** | **Task 1** | **Task 2** | **Task 3** | **Task 4** |  |
| --- | --- | --- | --- | --- | --- |
| **Nature of tasks** | **Designing and Planning Presentation** | **Industry Study** | **Project Development and  Management Report** | **Trial Examination** |
| **Timing** | Term 4, Week 8 | Term 1, Week 5 | Term 2, Week 8 | Term 3, Weeks 4-5 |
| **Outcomes assessed** | H3.1, H3.2, H3.3, H5.1 | H1.1, H1.2, H6.1, H6.2, H7.1, H7.2 | H2.1, H3.3, H4.1, H5.1, H5.2, H6.2 | H1.1, H1.2, H1.3, H3.1, H4.3, H6.1, H7.1 |
| **Component** |  | **Weighting %** |
| Knowledge and understanding of course content | 5 | 5 | 10 | 20 | **40** |
| Knowledge and skills in the design, management, communication and production of a major project | 15 | 15 | 20 | 10 | **60** |
| **Total %** | **20** | **20** | **30** | **30** | **100** |

**Outcomes**

**H1.1** investigates industry through the study of businesses in one focus area

**H1.2** identifies appropriate equipment, production and manufacturing techniques and describes the impact of new and developing technologies in industry

**H1.3** identifies important historical developments in the focus area industry

**H2.1** demonstrates proficiency in the use of safe working practices and workshop equipment maintenance techniques

**H3.1** demonstrates skills in sketching, producing and interpreting drawings

**H3.2** selects and applies appropriate research and problem-solving skills

**H3.3** applies and justifies design principles through the production of a Major Project

**H4.1** demonstrates competency in a range of practical skills appropriate to the Major Project

**H4.2** explores the need to outsource appropriate expertise where necessary to complement personal practical skills

**H4.3** critically applies knowledge and skills related to properties and characteristics of materials/components

**H5.1** selects and uses communication and information processing skills

**H5.2** examines and applies appropriate documentation techniques to project management

**H6.1** evaluates the characteristics of quality manufactured products

**H6.2** applies the principles of quality and quality control

**H7.1** explains the impact of the focus area industry on the social and physical environment

**H7.2** analyses the impact of existing, new and emerging technologies of the focus industry on society and the environment