

Course Information

Design and Technology

Material Design and Technology - Metal | MDTM



GTMDTM

Unit 3 Manufacturing and contemporary, production skills and techniques





In this unit you will develop an understanding of the elements and fundamentals of metal fabrication design and consider human factors involved in the design, production and use of their projects. You will develop creative thinking strategies and work on predominantly metal design projects. You will learn about the classification and properties of a variety of metal materials and make appropriate selections for project design needs.

You will learn about metal manufacturing and production skills and techniques, and develop the skills and techniques appropriate to the metal materials and gain practice in planning and managing metalwork processes through the production of your design project. You will learn about risk management and the ongoing evaluation processes.

Unit 4 Nature of designing for a client

In this unit you will learn about the nature of designing for a client, target audience or market. You will learn about the nature, properties and environmental impacts of metal materials, and production techniques. You will apply an understanding of the elements and fundamentals of metal project design and consider human factors involved in your design projects. You will develop creative thinking strategies, work on metal design projects within specified constraints and consider the environmental impacts of recycling of materials.

You will extend your understanding of safe working practices and contemporary manufacturing techniques in the workshop and develop the knowledge, understanding and skills required to manage metal fabrication processes of designing and manufacturing.

 Prerequisites Nil	 Year of Study Year 12	 Type of Assessment 25% Design 50% Production 10% Response 15% Externally Set Task	 Costs \$180 total
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