



Course Outline Options Metals 2017

Course Description	Within the framework of the course, students will aim to develop the knowledge, understandings and skills to ensure they, individually and collaboratively, investigate, design,	Skills Projects	Main Projects of Students Choice	
	plan, manage, create and evaluate solutions.	To teach the students the basic hand skills to	Portfolio	
Learning Outcomes	 Understands and implements safe working habits and procedures Demonstrates understanding of technical terminology Successfully implements the design process Evaluates own work against set criteria Follows directions to complete projects Demonstrates skills in the use of equipment Investigate how digital systems function Design and create digital solutions to solve real world problems 	operate hand and power tools safely in the workshop		
Work Practice Outcomes	 Works independently Works cooperatively Completes all set tasks 			
Assessment Items	Class work			

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		TestsPortfolio of class work	Projects			
Place of Learning		WAGIN DISTRICT HIGH SCHOOL	Semester 1			
			Domino, log with Axe (Brazing & Welding)	Spinning Die (Lathe)	Personal Project	Portfolio
Knowledge and understanding Year 10		Links to the Curriculum				
Technologies and society	Social, ethical and sustainability considerations that impact on designed solutions, complexity of design, and production processes involved Impact of emerging technologies on design decisions, and/or economic, environmental and social sustainability		x	х	x	x
Technologies contexts	In Year 10, students will have opportunities to create designed solutions in at least one of the technologies contexts below		x	х	x	x
Engineering principles and systems	The process of materials being combined with force, motion and energy to create solutions			Х	x	x
Materials and technologies specialisation	The combination o systems, component Designed solutions combined technolo	f a range of characteristics and properties of materials, nts, tools and equipment to create designed solutions within a range of technologies specialisations, using ogies	x	х	x	x

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Processes and	production skills				
Investigating	Identify the needs of the client/stakeholder to determine the basis for a solution				
and defining	Create and critique briefs to solutions	Х	x	x	x
	Investigate components/resources to develop increasingly sophisticated				
	solutions, identifying and considering associated constraints				
Designing	pply design thinking, creativity, enterprise skills and innovation to develop, modify and communicate design ideas of increasing sophistication		x	x	x
	Design possible solutions, analysing designs against criteria, including functionality, accessibility, usability and aesthetics, using appropriate technical terms and technology	X			
Producing	Select, justify, and safely implement and test appropriate technologies and				
and implementing	processes, to make solutions	X	X	X	X
Evaluating	Analyse design processes and solutions against student-developed criteria	Х	Х	Х	x
Collaborating and managing	Work independently, and collaboratively to manage projects, using digital technology and an iterative and collaborative approach. Considers time, cost, risk, safety, production processes, sustainability and legal responsibilities	Х	x	х	x

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