

Draft Technology Matrix: Version 7

	Technological Practice			Technological Knowledge			Nature of Technology		
Level 1	1.1 Develop a brief to address a given issue. 4 credits Internal	1.2 Select and use planning tools to enable the development of an outcome. 4 credits Internal		1.6 Demonstrate an understanding of the role of technological modelling 4 credits External	1.7 Demonstrate understanding of how materials are selected for use in a technological product. 4 credits Internal	1.8 Demonstrate understanding of the purpose of subsystems within technological systems 4 credits Internal	1.9 Demonstrate understanding of how technological outcomes can be described. 4 credits External	1.10 Demonstrate understanding of technological endeavour. 4 credits Internal	
	1.3 Develop a conceptual design to address a given issue. 6 credits Internal	1.4 Develop a prototype to address a given issue. 6 credits Internal	1.5 Develop a feasible ongoing production process for a technological outcome. 4credits Internal	Subjects of Technology: series of specific knowledge and skills standards (see note 2 and 3 below)					
				1.11(a range of subject of technology specific endorsed standards) Demonstrate understanding of <subject of technology> knowledge underpinning the development of an outcome. 4 credits External		1.12 (a range of subject of technology specific endorsed standards) Demonstrate skills in <subject of technology> 4 credits Internal			
Level 2	2.1 Develop a brief to address an identified issue from a given context. 4 credits Internal	2.2 Select and use project management practices to enable the development of an outcome. 6 credits Internal		2.6 Demonstrate through technological modelling an understanding of reasoning and its role in managing risk. 4 credits External	2.7 Demonstrate understanding of how material properties determine suitability for use in a technological product. 4 credits Internal	2.8 Demonstrate understanding of implications of redundancy and reliability within technological systems 4 credits Internal	2.9 Demonstrate understanding of how technological outcomes evolve and are accepted. 4 credits External	2.10 Demonstrate understanding of the competing priorities and importance of critical evaluation in technological endeavour. 4 credits Internal	
	2.3 Develop a conceptual design to address an identified issue from given context. 6 credits Internal	2.4 Develop a prototype to address a given context. 6 credits Internal	2.5 Develop a proposal for ongoing multi-unit production of a technological outcome. 4credits Internal	Subjects of Technology: series of specific knowledge and skills standards (see note 2 and 3 below)					
				2.11(a range of subject of technology specific endorsed standards) Explain <subject of technology> knowledge which underpins the development of an outcome. 4 credits External		2.12 (a range of subject of technology specific endorsed standards) Demonstrate <subject of technology> skills applied to develop an outcome. 4 credits Internal			

Level 3	3.1 Develop a brief to address an identified issue from a selected context. 6 credits Internal		3.2 Select, use and evaluate project management practices to efficiently manage technological practice. 6 credits Internal		3.6 Demonstrate understanding of the critical role of technological modelling in technological development. 4 credits External		3.7 Demonstrate understanding of how the development of a material impacts on its suitability for use in a technological product. 4 credits Internal		3.8 Demonstrate understanding of operational parameters within technological systems 4 credits Internal		3.9 Demonstrate understanding that technological outcomes are interpreted with a context. 4 credits External		3.10 Demonstrate understanding of the implications of technology by design. 4 credits Internal	
	3.3 Develop a conceptual design to address an identified issue from a selected context. 6 credits Internal		3.4 Develop a prototype to address an identified issue from a selected context. 6 credits Internal		3.5 Develop a proposal for ongoing multi-unit production for a technological outcome that optimises the use of resources. 4credits Internal		Subjects of Technology: series of specific knowledge and skills standards (see note 2 and 3 below)							
							3.11(a range of subjects of technology specific endorsed standards)				3.12 (a range of subject of technology specific endorsed standards)			
						Examine <subject of technology> knowledge applied in practice. <i>4 credits External</i>				Demonstrate advanced <subject of technology> skills when developing an outcome. <i>4 credits Internal</i>				

- Note:
1. The proposed matrix allows students to be assessed at Levels 1, 2 and 3 using technology achievement standards for **two** or **more** 'subjects of technology'
 2. It is proposed that a series of *subjects of technology* knowledge and skill standards will be developed in Phase 2 of the Curriculum Alignment Project – see the *Overview* statement in the *Rational for Proposed Matrix* document for further explanation
 3. Teachers are encouraged to use the **existing** *subject specific* knowledge and skills achievement and unit standards until the '*subjects within the technology learning area*' are defined and the proposed knowledge and skills achievement standards are developed.