

Technology Matrix

This matrix includes the new standards for Digital Technologies and Hangarau Matihiko, released in 2018 (levels 2 and 3).

Generic Technology	AS91354 2.1 Undertake brief development to address an issue 4 credits Internal	AS91355 2.2 Select and use planning tools to manage the development of an outcome 4 credits Internal	AS91356 2.3 Develop a conceptual design for an outcome 6 credits Internal	AS91357 2.4 Undertake effective development to make and trial a prototype 6 credits Internal
	AS91358 2.5 Demonstrate understanding of how technological modelling supports risk management 4 credits External	AS91359 2.6 Demonstrate understanding of the role of material evaluation in product development 4 credits External	AS91360 2.7 Demonstrate understanding of redundancy and reliability in technological systems 4 credits External	AS91361 2.8 Demonstrate understanding of sociocultural factors, and how competing priorities are managed, in technology 4 credits Internal
	AS91362 2.9 Demonstrate understanding of the nature of technological outcomes 4 credits Internal	AS91363 2.10 Demonstrate understanding of sustainability in design 4 credits External	AS91364 2.11 Demonstrate understanding of advanced concepts related to human factors in design 4 credits Internal	AS91365 2.12 Demonstrate understanding of advanced concepts used in manufacturing 4 credits Internal
	AS91366 2.13 Undertake development and implementation of an effective manufacturing process 6 credits Internal			
Specialist Categories of Technological Knowledge and Skills	Construction & Mechanical Technologies focuses on making and knowing how to make products and devices. <i>It is envisaged these standards will provide assessment tools for current school courses such as: hard materials, product development, textiles, automotive, furniture making, fashion, etc.</i>	Design and Visual Communication focuses on where visual literacy and creative thinking is developed, using visual communication techniques. <i>It is envisaged that these standards would provide assessment tools that school courses such as: Graphics, Product Design, and Fashion, Textiles, etc.</i>	Digital Technologies and Hangarau Matihiko focuses on applying and knowing about computational thinking and designing and developing digital outcomes. <i>It is envisaged these standards will provide assessment tools for current school courses such as: computing, digital media, information management, and electronics etc.</i>	Processing Technologies focuses on formulating and knowing how to formulate processed products. <i>It is envisaged these standards will provide assessment tools for current school courses such as: Food technology, biotechnology, chemical technology, product development, and textiles, etc.</i>
	AS91344 2.20 Implement advanced procedures using resistant materials to make a specified product with special features 6 credits Internal	AS91337 2.30 Use visual communication techniques to generate design ideas 3 credits External	AS91890 2.1 Conduct an inquiry to propose a digital technologies outcome 6 credits Internal	AS91351 2.60 Implement advanced procedures to process a specified product 4 credits Internal
	AS91345 2.21 Implement advanced procedures using textile materials to make a specified product with special features 6 credits Internal	AS91338 2.31 Produce working drawings to communicate technical details of a design 4 credits External	AS91891 2.2 Apply conventions to develop a design for a digital technologies outcome 3 credits Internal	AS91352 2.61 Demonstrate understanding of advanced concepts used in processing 4 credits Internal
	AS91347 2.22 Demonstrate understanding of advanced concepts used to make products 4 credits Internal	AS91339 2.32 Produce instrumental perspective projection drawings to communicate design ideas 3 credits External	AS91892 2.3 Use advanced techniques to develop a database 4 credits Internal	AS91353 2.62 Demonstrate understanding of advanced concepts used in preservation and packaging for product storage 4 credits Internal
	AS91346 2.23 Demonstrate understanding of advanced concepts used to make textile products 4 credits Internal	AS91340 2.33 Use the characteristics of a design movement or era to inform own design ideas 3 credits Internal	AS91893 2.4 Use advanced techniques to develop a digital media outcome 4 credits Internal	

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	AS91348 2.24 Demonstrate understanding of advanced concepts related to structural frameworks 3 credits Internal	AS91341 2.34 Develop a spatial design through graphics practice 6 credits Internal	AS91894 2.5 Use advanced techniques to develop an electronics outcome 6 credits Internal
	AS91349 2.25 Demonstrate understanding of advanced concepts related to machines 3 credits Internal	AS91342 2.35 Develop a product design through graphics practice 6 credits Internal	AS91895 2.6 Use advanced techniques to develop a network 4 credits Internal
	AS91350 2.26 Make advanced adaptations to a pattern to change the structural and style features of a design 4 credits Internal	AS91343 2.36 Use visual communication techniques to compose a presentation of a design 4 credits Internal	AS91896 2.7 Use advanced programming techniques to develop a computer program 6 credits Internal
	NB <i>All teaching and learning programmes or courses in technology can be assessed using standards from anywhere across this matrix.</i>		AS91897 2.8 Use advanced processes to develop a digital technologies outcome 6 credits Internal
			AS91898 2.9 Demonstrate understanding of a key aspect of a computer science concept 3 credits External
			AS91899 2.10 Present a summary of developing a digital outcome 3 credits External

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	AS91612 3.5 Demonstrate understanding of how technological modelling supports technological development and implementation 4 credits External	AS91613 3.6 Demonstrate understanding of material development 4 credits External	AS91614 3.7 Demonstrate understanding of operational parameters in complex and highly complex technological systems 4 credits External	AS91615 3.8 Demonstrate understanding of consequences, responsibilities and challenges involved in technology 4 credits Internal
	AS91616 3.9 Demonstrate understanding of how the fitness for purpose of technological outcomes may be broadly interpreted 4 credits Internal	AS91617 3.10 Undertake a critique of a technological outcome's design 4 credits External	AS91618 3.13 Undertake development and implementation of a green manufacturing process 6 credits Internal	AS91619 3.14 Demonstrate understanding of the application of a technical area to a specific field 4 credits Internal
Specialist Categories of Technological Knowledge and Skills	Construction & Mechanical Technologies focuses on making and knowing how to make products and devices. <i>It is envisaged these standards will provide assessment tools for current school courses such as: hard materials, product development, textiles, automotive, furniture making, fashion, etc.</i>	Design and Visual Communication focuses on where visual literacy and creative thinking is developed, using visual communication techniques. <i>It is envisaged that these standards would provide assessment tools that school courses such as: Graphics, Product Design, and Fashion, Textiles, etc.</i>	Digital Technologies and Hangarau Matihiko focuses on applying and knowing about computational thinking and designing and developing digital outcomes. <i>It is envisaged these standards will provide assessment tools for current school courses such as: computing, digital media, information management, and electronics etc.</i>	Processing Technologies focuses on formulating and knowing how to formulate processed products. <i>It is envisaged these standards will provide assessment tools for current school courses such as: Food technology, biotechnology, chemical technology, product development, and textiles, etc.</i>
	AS91620 3.20 Implement complex procedures to integrate parts using resistant materials to make a specified product 6 credits Internal	AS91627 3.30 Initiate design ideas through exploration 4 credits External	AS91900 3.1 Conduct a critical enquiry to propose a digital technologies outcome 6 credits Internal	AS91643 3.60 Implement complex procedures to process a specified product 6 credits Internal
	AS91621 3.21 Implement complex procedures using textile materials to make a specified product 6 credits Internal	AS91628 3.31 Develop a visual presentation that exhibits a design outcome to an audience 6 credits Internal	AS91901 3.2 Apply user experience methodologies to develop a design for a digital technologies outcome 3 credits Internal	This standard has been deleted and subsumed into 3.60. 3.61
	AS91622 3.22 Implement complex procedures to make a specified product using a Computer Numerical Controlled (CNC) machine 4 credits Internal	AS91629 3.32 Resolve a spatial design through graphics practice 6 credits Internal	AS91902 3.3 Use complex techniques to develop a database. 4 credits Internal	AS91644 3.62 Demonstrate understanding of combined preservation mechanisms used to maintain product integrity 4 credits Internal
	AS91623 3.23 Implement complex procedures to create an applied design for a specified product 4 credits Internal	AS91630 3.33 Resolve a product design through graphics practice 6 credits Internal	AS91903 3.4 Use complex techniques to develop a digital media outcome 4 credits Internal	
	AS91624 3.24 Demonstrate understanding of a structural system 3 credits Internal	AS91631 3.34 Produce working drawings to communicate production details for a complex design 6 credits External	AS91904 3.5 Use complex techniques to develop an electronics outcome 6 credits Internal	

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	AS91625 3.25 Demonstrate understanding of a complex machine 3 credits Internal		AS91905 3.6 Use complex techniques to develop a network 4 credits Internal
	AS91626 3.26 Draft a pattern to interpret a design for a garment 6 credits Internal		AS91906 3.7 Use complex programming techniques to develop a computer program 6 credits Internal
	NB <i>All teaching and learning programmes or courses in technology can be assessed using standards from anywhere across this matrix.</i>		AS91907 3.8 Use complex processes to develop a digital technologies outcome. 6 credits Internal
			AS91908 3.9 Analyse an area of computer science 3 credits External
			AS91909 3.10 Present a reflective analysis of developing a digital outcome 3 credits External