Management &

Communication

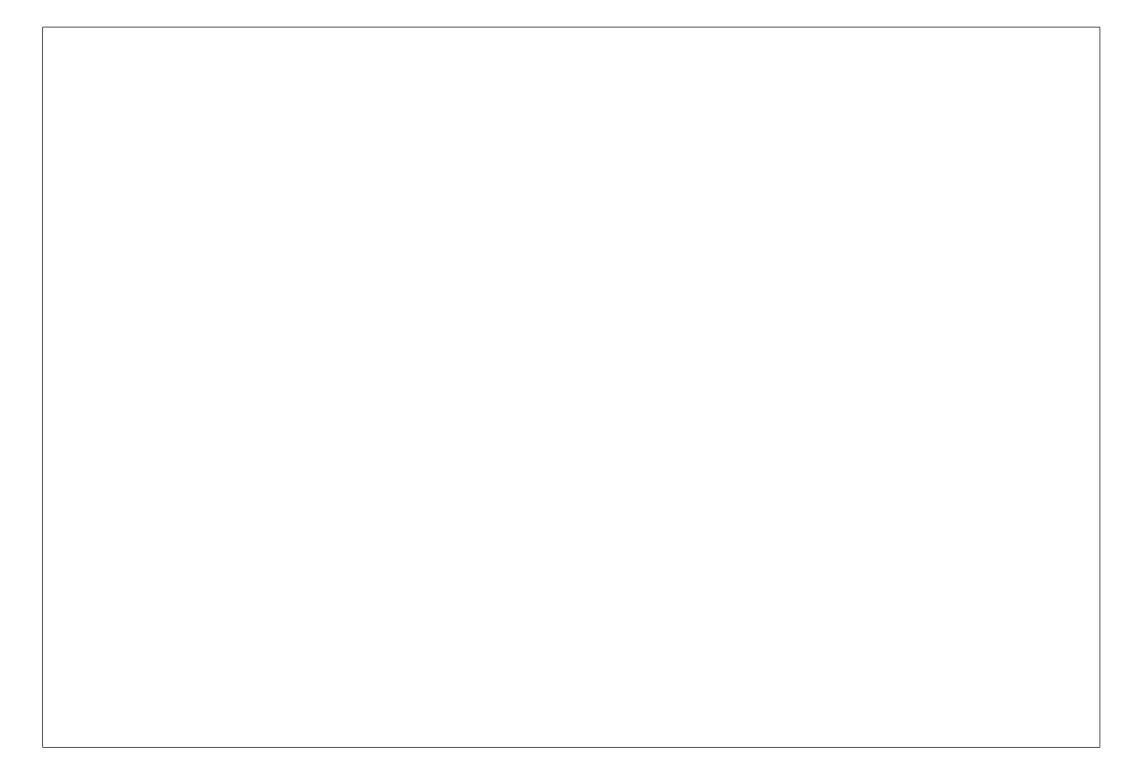
(A Portfolio Guide)

Industrial Technology: Multimedia Technologies



Name:	Year:
-------	-------

Item or Section		Completed	Final Check
Contents Page			
Numbered Each Page			
Header and Footer with Student Name	e/Number		
Statement of Intent			
Research	Materials		
	Resources		
	Processes		
	Technologies		
Selection and Justification	Materials		
	Resources		
	Processes		
	Technologies		
	Materials		
Development of Ideas	Sketching and Idea Generation		
	Prototyping, Modelling and Testing		
	Production and Working Drawings		
Design and/or Design Modifications in	cluding Materials, Components and Processes		
Evidence of Project Management	Time and Action Plan		
	Finance Plan		
	Record of Production		
WHS and Safe Working Practices			
Presentation Skills and techniques inclu	uding ICT		
Evaluation of the Major Project	Statement of Intent		
	Research and Planning		
	Development		
Quality of product			
Evidence of a range of skills and degree	·		
Links between planning and production	n)		
Use of appropriate materials, compone	ents, processes and technologies		
Evidence of solutions to problems in pr	roduction		



IIATE, 2012

Statement of Intent

Introduction

Briefly state the type of multimedia project you intend to produce, its genre, subject matter and possible title.

• Motivation/Inspiration

Explain why you have undertaken this project or why it is important.

Parameters

Identify your target audience and suggest why it should appeal or what you wish to achieve.

Outline the extent of the project, listing the main topics or issues you plan to address.

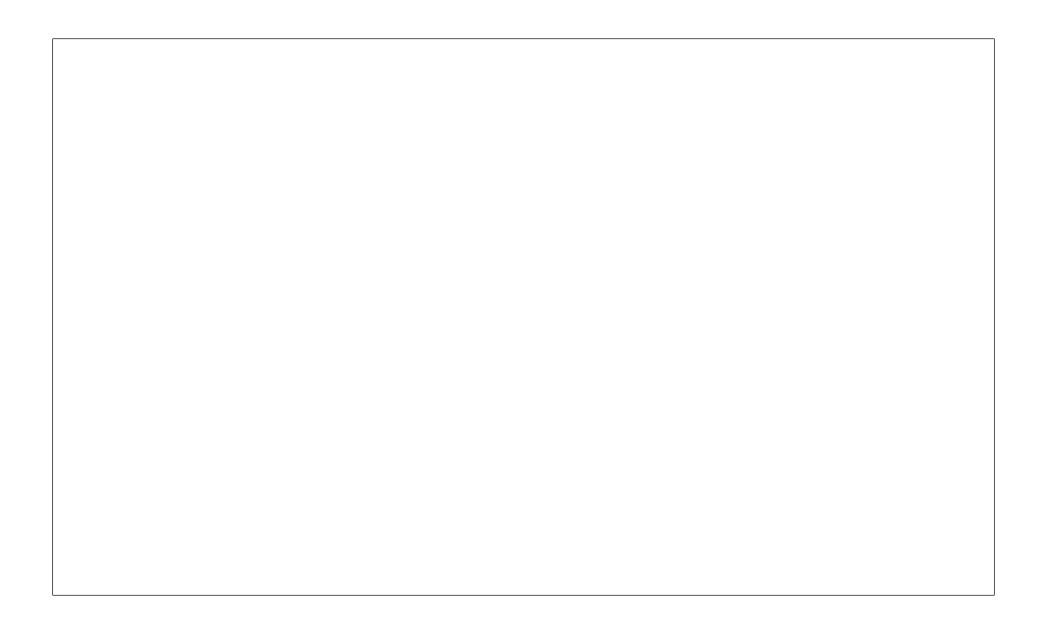
Identify output/distribution options and the basic techniques you may use.

Identify limitations and technical constraints.

Identify possible opportunities to extend your project.

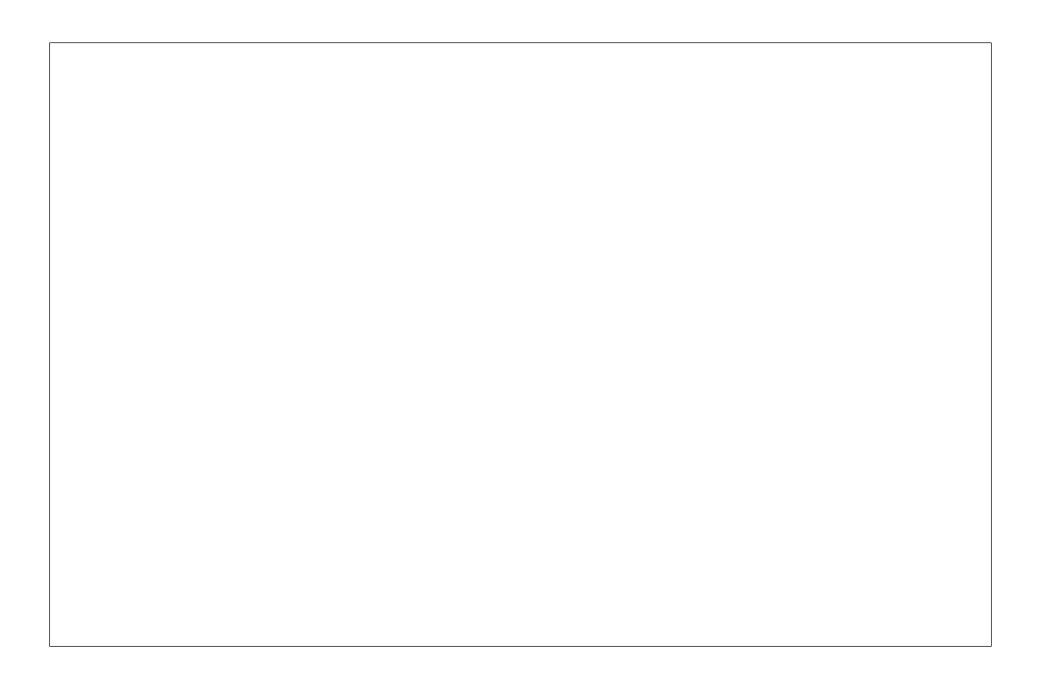
The statement of intent should be brief, clear and succinct; 1-2 pages in length and written in future tense.

All changes in the design of the project should be documented in the design and development section and with ongoing evaluation. This statement provides the criteria to assess the quality and success of your project in the final evaluation.



Statement of Intent
Introduction
Motivation/Inspiration
Parameters

How the project could be extended?	



ject and that ct. y be a useful
(

Title of Researched Item

URL and/or Source

Generic Information			SCREENSHOT/IMAGE
Design Aspect (include screenshot)	Analysis	How can this be implemented/changed in the Major Project	Why would this design or functionality feature be implemented?

Selection and justification of resources

This section should be quite extensive, but all information must be relevant and directly related to your project.

Materials

Types of media, existing medial collections/libraries you may be able to utilise file types, media formats and codes (eg explain why you chose a PNG or GIF)

• Technologies

Devices used for processing, storage, imaging, audio, input/capture, communication and output software applications.

Processes

Typical workflow procedures and software techniques, particularly industry standards.

IT processes, back-up, antivirus, incremental saving, legal processes, copyright, seeking copyright Identify work that may be appropriately outsources or resources that could be purchased complete.

Resources

Scripts, modules, templates

Tutorials and other resources that may include factual information or opinions from websites, forums, blogs, industry exper

Selection and Justification of Resource

Image	Title	Description	Other Options	Why Was this Chose
	<u> </u>		1	
Image	Title	Description	Other Options	Why Was this Choser
illiage	Title	Description	Other Options	willy was tills chosel
Image	Title	Description	Other Options	Why Was this Choser
Image	Title	Description	Other Options	Why Was this Choser

Development of ideas

You need to demonstrate your thought processes over a period of time as you select and progressively refine your ideas into your final Major Project.

In this section you could include:

• Sketching and idea generation

a mindmap to show the topics, concepts or sections that may be included as well as the possible organisation, relationships and links between the topics and sections

draft 'script'

preliminary sketches of characters, backgrounds, graphics

• Prototyping, modelling and testing

tutorial exercises

diagrams showing layout of screens/pages, user interface or other components detailed storyboards showing the organisational structure of the project animatics, location skills, screen tests, short records to assess quality, compatibility, editing techniques, calculations outline and explanation of the modifications you made to your initial ideas and concepts

• Production and working drawings

working script / director's notes, animator's 'bible' shot list/log template files, custom palettes

Select only a good representative sample of your hand-drawn sketches to include in the folio. These may be placed directly into the folio or photographed/scanned into the folio document.

Title of Stor	yboard/Sketch/Script/D	i awiiig/ Siiut List
	Storyboard/Sketch/Script/Drawing/Shot	List
Description	Evaluation	Explanation of how this will help the Statement of Intent
		I

Design and/	or design modifications			
	have justified the materials, resources, pro	cesses and technologies from	n a technical point of view in the res	search section of you
folio, this is	where you can analyse, evaluate and justify	y the aesthetic design of your	project.	

Page 15

Title of Final Storyboard/Sketch/Script/Drawing/Shot List

_			
	Final Storyboard/Sketch/Script/Drawing/Shot List		
	Grand		
	 		

Evaluation	Why this design was chosen	Explanation of how this will help the Statement of Intent	

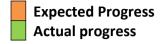
Tim	eline	plan
		piuii

Develop a comprehensive and detailed time plan to ensure your project is completed on time.

- Prepare an outline of critical dates or deadlines for the completion of each stage of your project
- Construct a detailed Gantt chart or other diagram showing both the planned and actual timing of each part of the project it may include management tasks but more importantly it must include the detailed steps of production
- Identify and explain any major changes to your proposed timeline and evaluate your project throughout the project

Use a journal or diary to regularly record your progress. It should include 'to do' lists and procedures, and may include notes and comments to self and evaluations. While this will not be directly included in your folio, it will be very helpful when it comes time to actually write and edit your folio.

Time & Action Plan



Term 4												
Task	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W1	Evaluation of Task
											1	
Statement of Intent												
Task Name												
Task Name												
Task Name												

Ongoing Evaluation:

Explain how you think you went this term in relation to your time management.

Finance plan

Develop a comprehensive and detailed plan to ensure your project is completed on budget.

- Conduct a preliminary investigation into the probable costs associated with your ideas and your own financial position determine a realistic 'bottom line' that includes contingency planning
- Construct a budge showing predicted expenses for all the processes and items in your project
- Identify capital investments and reoccurring costs not in the budget
- Keep a record of all expenses explain any significant differences between your proposed budget and actual expenditure

LED - 20"

LED monitor.

\$152.32 (exc. GST)

Although many student multimedia projects are produced at very little expense using existing resources, it is important to identify the costs associated with specific processes and items. Finance plans may include 'wages' but this is not realistic for student projects and not necessary.

DoE pricing as of 12th January 2017

HP EliteDisplay E202

The HP EliteDisplay E202 LED

monitor is a highly adjustable 20"

HP EliteDisplay E190i LED - 19"

The HP EliteDisplay E190i LED monitor is the most cost effective monitor.

\$146,29 (exc. GST)

HP EliteDisplay E242 -24"

The HP EliteDisplay E242 LED monitor is an affordable large monitor.

\$267.04 (exc. GST)

A reliable, fully supported desktop PC suitable for use in

\$396.01 (exc. GST)

HP EliteDisplay E222 LED - 21.5"

The HP EliteDisplay E222 LED monitor is an affordable mid-size monitor.

\$165.28 (exc. GST)

HP ProDesk 600 - base desktop

the classroom, library and office.

HP Chromebook 11 G5

The HP Chromebook 11 G5 is a fast, versatile tablet. It is not eT4L ready.

\$420.00 (exc. GST)

Lenovo ThinkPad 11e Chromebook

The Lenovo ThinkPad 11e Chromebook is a fast, versatile tablet, ideal for detailed use of Google's application suite for education. Not eT4L readv.

\$463.65 (exc. GST)

HP EliteDisplay E272q -27"

The HP EliteDisplay E272q QHD monitor is the largest contract monitor available from this supplier.

\$583.54 (exc. GST)

HP EliteDesk 800 advanced desktop

An advanced model for use with graphic software and high end applications.

\$623.42 (exc. GST)

Page 19

Est. Cost	Quant Needed	Total Cost	Actual Cost	Actual Total Cost	Date Purchased	Comment
Est. Cost	Quant Needed	Total Cost	Actual Cost	Actual Total Cost	Date Purchased	Comment
Est. Cost	Quant Needed	Total Cost	Actual Cost	Actual Total Cost	Date Purchased	Comment
Est. Cost	Quant Needed	Total Cost	Actual Cost	Actual Total Cost	Date Purchased	Comment
	Est. Cost	Est. Quant Needed Est. Quant Needed Est. Quant Needed Est. Quant Needed	Est. Quant Total Cost Needed Cost Est. Quant Cost Est. Quant Total Cost Est. Quant Total Cost Est. Quant Total Cost	Est. Quant Total Cost Cost Est. Quant Cost Cost	Est. Quant Cost Cost Cost Cost Est. Quant Cost Cost Cost Cost Est. Quant Cost Cost Cost Est. Cost Cost Cost Cost Est. Cost Cost Cost Cost Cost Cost Est. Cost Cost Cost Cost Cost Cost	Cost Needed Cost Cost Total Cost Cost Est. Quant Cost Cost Total Purchased Cost Needed Cost Cost Total Cost Cost Cost Cost Cost Cost Cost Cost

Overall evaluation of project management:	

Record of produc	ction
------------------	-------

Each stage and important process in the production needs to be explained using detailed procedures, photos and/or screen shots. This provides evidence of your effort and skills and proof that the project is in fact all your own work.

Your record of the production should reference both your research and timeline plane.

All screen shots, pictures and diagrams should be annotated to explain your creative thinking as well as your decision-making and problem-solving processes.

Don't be afraid to identify problems and mistakes, but emphasise and clearly explain how these were solved or corrected. You may also identify processes or aspects of the project that show its functional and aesthetic qualities as well as the degree of difficulty related to the design, processes, techniques and production skills.

Record of Production

Image/Photo of achievement	What was achieved	How was it achieved	Why it was achieved	Evaluation of achievement

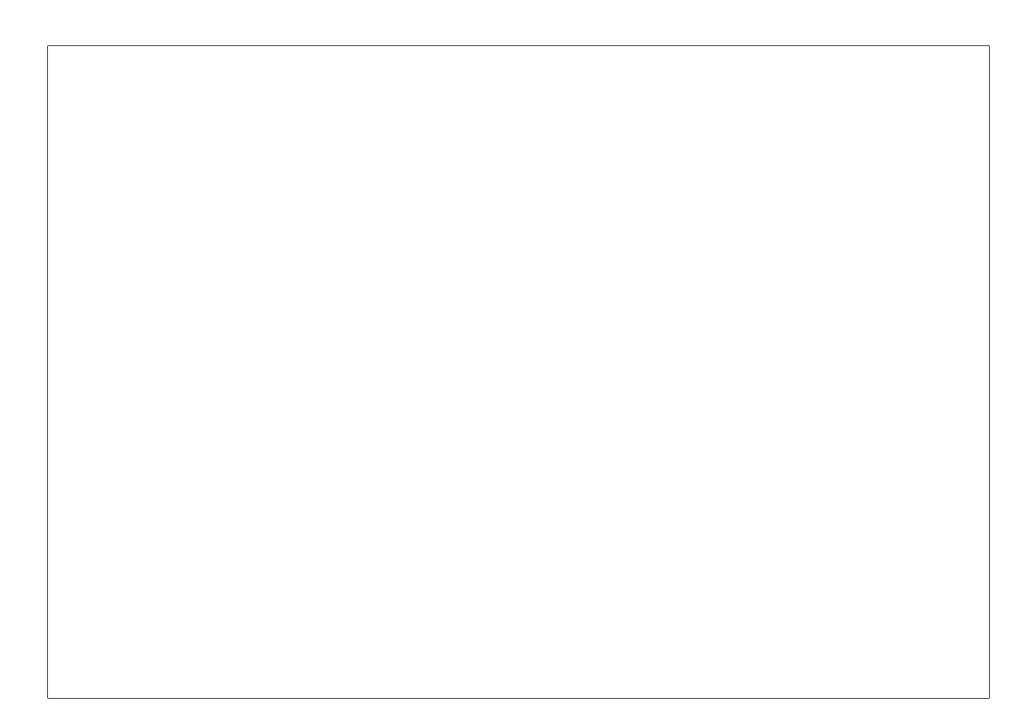
Work	Health	and	Safety
------	--------	-----	--------

Discuss WHS issues relating to your project and illustrate how you have followed safe working practices.

- Identify WHS issues relating to your project such as hearing loss; tag and testing; electrical safety; RSI; on location risks
- Conduct a risk analysis for several WHS issues relating to your project and identify steps to eliminate or minimise hazards
- Illustrate and explain how you followed safe working procedures in the production of your project

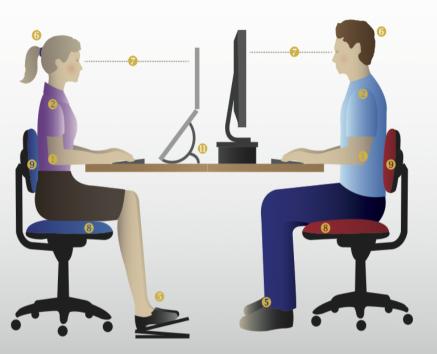
This section is often poorly co	mpleted by Multimedia students.	Never write that WHS	S issues were not important.	Always include photos
and/or diagrams of yourself in	your environment as well as a wr	itten explanation of y	your procedures.	

aria, or alagrams of	r yoursen iir your enviro	milene as well as a wife	ecti explanation of ye	our procedures.	
The next four page	es contain notes to help	you complete the WH	S section of your foli	io.	





Workstation Setup







Set up your desk to position frequently used items within a forearm's length and less frequently used items within a stretched out arm's length

• Elbows

Above the desk, at 90-110 degrees

Shoulders

Relaxed as opposed to hunched

Wrists

In line with forearms

4 Hips, Knees, Ankles

At 90 degrees whilst seated

Feet

Flat on the ground or footrest For prolonged standing, consider a mat

6 Head

Upright with ears aligned with shoulders

Eyes

Looking at the top third of the screen. Consider the use of a laptop raiser with your laptop

Seat length

Should be long enough to provide support beneath thighs

Backrest

Angled at 90-110 degrees with adequate lumbar support in line with lower back

Weyboard and Mouse
G and H of keyboard aligned with your

nose. Mouse gripped loosely

Laptop

Used with a riser, external keyboard and external mouse

Health Tips

□ 20-20-20

Every 20 minutes, focus on an object 20 metres away, for 20 seconds

- Take regular breaks
- Keep hydrated

Drink plenty of water and limit your caffeine intake

- Avoid eating lunch at your desk
- Exercise regularly

Stretching classes can be organised for your work area by emailing **uwahealth-sseh@uwa.edu.au**

Further Assistance

Safety and Health provide ergonomic assessment and advice to UWA staff and post-graduate students with dedicated office space.

To book online: safety.uwa.edu.au/forms/ ergonomic_assessment or contact us on 6488 3938



Objects	Hazards	Possible Controls
Chair selection	 Chair is not the appropriate size Poor back support Front edge of seat insufficiently rounded and / or padded User misjudges height of stool or slips or overbalances whilst getting on or off 	 Have an ergonomic assessment undertaken Try chairs of different styles and dimensions until user feels secure, has adequate support and feels comfortable When purchasing new chairs specify seat pans to have a well padded rounded 'waterfall edge' Alert all users of high chairs or stools of the need for particular care when getting on or off these
Chair / desk adjustment	how to use the adjusting	
Stability	 Chair can tip over when user leans over too far Chairs / stools with castors when used on non-carpeted floors may roll away when sitting 	Replace office chairs with less than a 5 star base
Armrests	Narrow clearance between armrest and bottom of desk Armrests obstruct correct keyboarding position Armrests prevent chair from silding under desk	If appropriate adjust or remove armrests to prevent jamming injuries When purchasing new chairs, specify adjustable armrests to ensure proper height is achievable If appropriate remove armrests to allow user to adopt good posture by sitting closer to desk
Desk selection	Desk is too shallow to allow user sufficient room to conduct tasks User is unable to access desk appropriately Desk can not be adjusted appropriately	Review the tasks to be conducted at the workstation Select a desk that allows the user enough room to store and use the required equipment for the tasks Where appropriate supply additional workspace for specific tasks (e.g. mail sorting) Consider providing adjustable desks or sit/stand workstations where approplate
Foot rests	Feet are not able to rest comfortably on floor Thighs are pressing too hard on edge of seat	Adjust chair and desk to avoid using a foot rest Use a footrest which allows feet to be placed flat on its surface with thighs just clear of seat edge

Objects	Hazards	Possible Controls
Monitor placement	Computer screen is too high or too low User wears bifocal glasses Screen is too close to or too far from eyes Screen tilt is incorrectly adjusted Dual screens	Set monitor so workers can read top of screen without tilting head backwards to do so Working documents should be located between the screen and keyboard or alongside the screen to ensure the same focal distances for both Spectacles with full corrective or multifocal lenses should be used Screen should be placed arms length away from the worker, with the top of the screen just above eye level Locate the monitor directly in front of the worker to reduce twisting of the neck and torso Place the screen with a tilt of 15 degrees up from vertical Locating the two screens side by side to reduce back and neck twisting from one screen to another Slightly angle the screens towards one another to further reduce twisting Screen should be placed in front of you proportionally to the use (i.e. if one screen is used 90% of the time it should occupy 90% of the space in front of the operator)
Monitor type	Monitor flickers at the screen edges	Consider using LCD monitors as they are free from flicker at the screen edges
Keyboard and mouse height	Keyboard / mouse is being used at the wrong height	Arms should be parallel to floor when at rest Use keyboard in a lowered position (i.e. fold away keyboard feet) Ensure wrists are in neutral position (i.e. if appropriate use wrist rest)
Keyboard and mouse placement and shape	User is twisting to use keyboard / mouse Keyboard is being used too far away from body Mouse is being used too far away from keyboard Inappropriate keyboard size and / or shape for the user Inappropriate mouse size and / or shape for the user's hand	Keyboard should be used in front of screen or document holder (major viewing surface) Keyboard used directly in front of user Locate keyboard as near to the front edge of the desk to reduce reaching Locate mouse as close as possible to keyboard to reduce reaching Provide a style of keyboard / mouse which is comfortable for the user Provide a mouse which fits the size and natural shape of the user's hand Ensure appropriate surface for smooth operation of mouse
• Documents used when keyboarding	Excessive eye and neck • movement from poor document position when • keyboarding	Use an A4 document holder placed level with and close to one side of the screen (for 'touch typists') Use an A3 document holder above keyboard, and in front of screen (for non 'touch typists')
Personal electronic devices	Personal electronic devices reduce awareness of surroundings (warning sounds, traffic) Headphones used to block background noise Music playing devices may damage hearing	Consider developing policy about where and when it is appropriate to use personal electronic devices Including awareness of the dangers of personal electronic devices in induction Using stereo headphones (circumaural headphones) that cover the entire ear or in-ear headphones (canalphones) to block background noise instead of earbuds or earphones that are not capable of delivering the same dynamic range and consequently often used at a higher volume Display appropriate signage about responsible use of personal electronic devices
• Operator	Tasks that may cause body fatigue and stressing Lack of task variety, prolonged time spent in one position Tasks that may cause eyes to become irritated, strained or blurred	Conduct a workstation assessment before operator begins work (i.e. desk height, chair adjustment, keyboard / mouse / screen position) Have appropriate signage / computer applications to remind workers to take breaks and guldance on appropriate stretching exercises To reduce risks of body fatigue and or stressing from repetitive tasks, implement task variety to reduce the risk Provide appropriate training to workers to encourage appropriate posture, regular breaks, stretching exercises and eye health management (blinking regularly to lubricate the eye and focusing on objects away from a screen)



Further information

Regulations

- · Work Health and Safety Regulations 2011 (Cth) (WHS Regulations) Part 3.1 General Working Environment
- Work Health and Safety Regulations 2011 (Cth) (WHS Regulations) Part 4.2 Hazardous Manual Tasks

Code of Practice

- Work Health and Safety Code of Practice 2011 (Cth) Hazardous Manual Tasks
- . Work Health and Safety Code of Practice 2011 (Cth) Managing the Work Environment and Facilities
- · Work Health and Safety Code of Practice 2011 (Cth) -Preventing and managing fatigue in the workplace

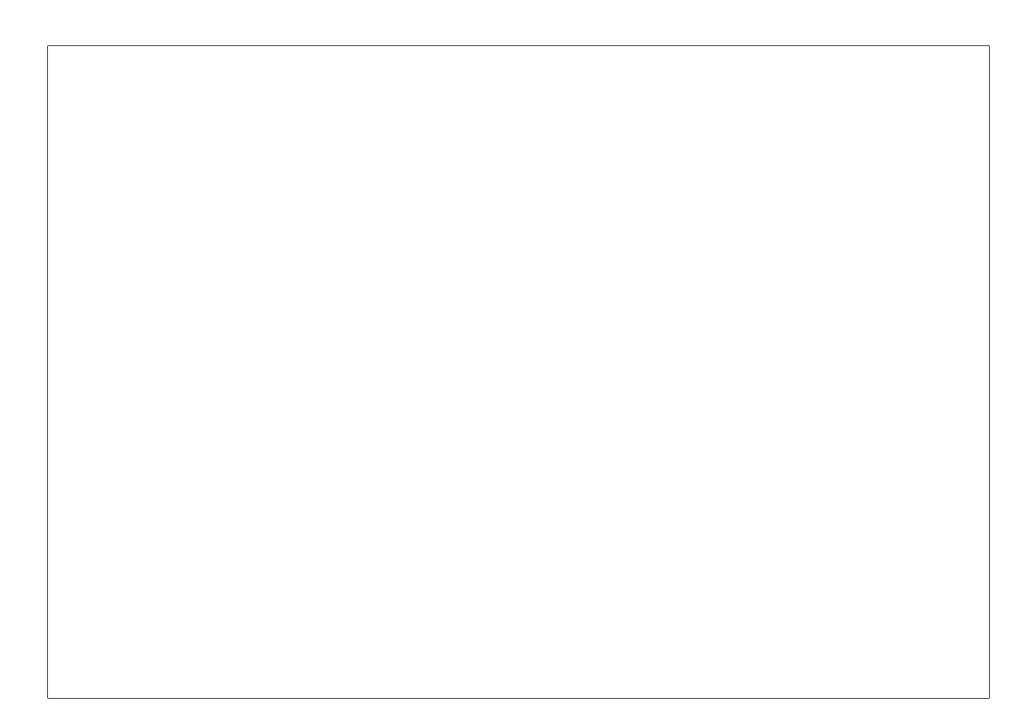
Comcare Guidance

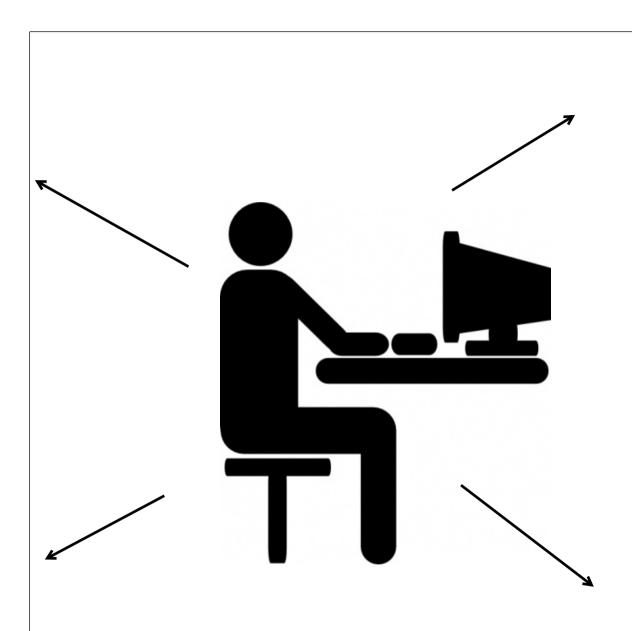
- · Officewise: A guide to health and safety in the office
- · Call centres: A guide to safe work
- · Health and safety topic Eye health
- Health and safety topics Manual tasks
- · Health and safety topic Body stressing



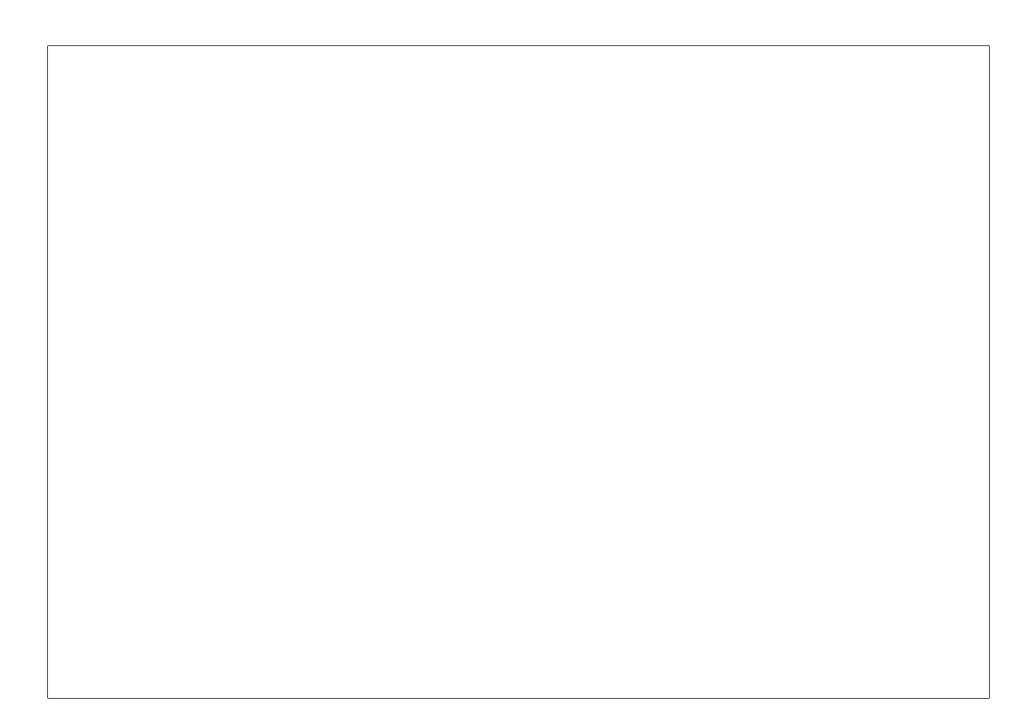
Work Health and Safety

Risk	Description	How Risk Was Prevented





INSERT PHOTO OF YOURSELF WORKING SAFELY AT A WORKSTATION AND ANNOTATE THE PHOTO



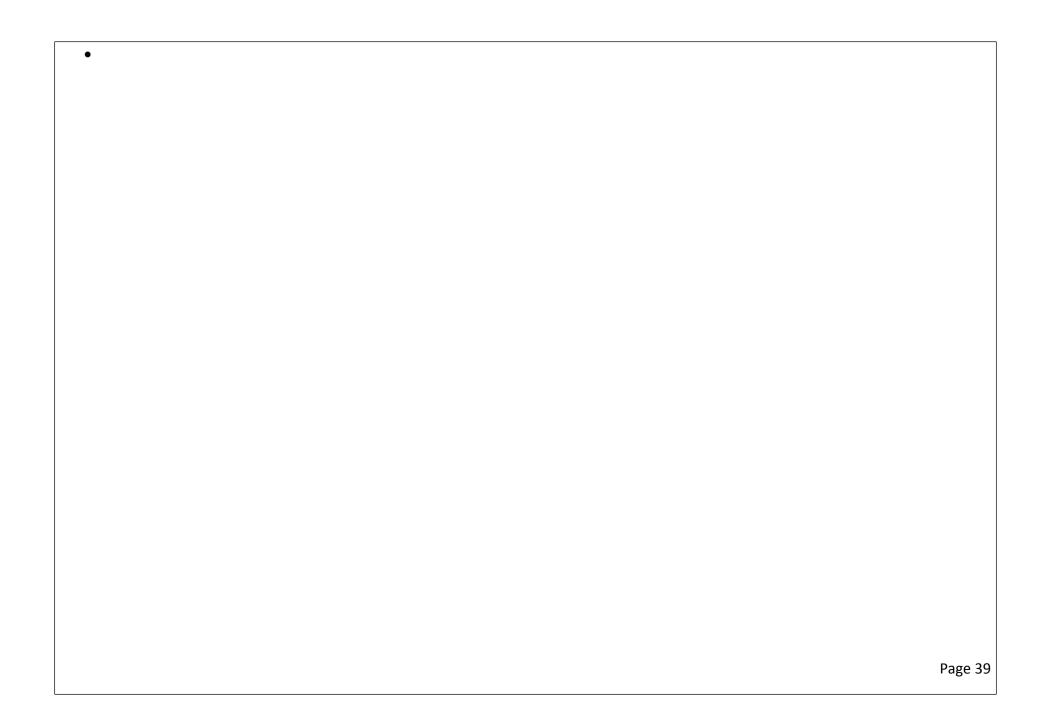
Risk Assessment

Name of Procedure

Description of Procedure	Image of Process
	, and the second

Procedural Step(s)	Possible Hazard(s)	R1	Safety Control(s)	R2

Summarise the range of computer applications and presentation techniques you have used throughout your project
Show any calculations you have done



Presentation Skills and Techniques including ICT

Screenshot of Skill	What was achieved	How was it achieved	Why it was achieved	Evaluation of achievement

aluation of the Major P	ent of Intent should a	avolain how your proje	ect has fulfilled the intende	ed outcomes - vou may
			essional evaluation includ	
dence of use outside o	Juli developinent dire	z permaps obtain pron		ing testimomais ana, si

Evaluation of the Major Project

Screenshot/Photograph	Component of Major Project	Description	Evaluation	Evaluation in Regards to the Statement of Intent

Overall evaluation of major project and evaluation in regards to the statement of intent:		

Quality of the product Students should always aim to achieve a quality product which could be sold commercially.
Quality should relate to all aspects of the design, planning, management, production and evaluation process.
In this section you may wish to direct the examiner to areas of your project which have been recognised by other specialists as being of high quality. Letters from experts could be included in this section.

Quality of the Product

Screenshot/Photograph	Component of Product	Description	Explanation of its Quality

Overall evaluation of the quality of the product:

Evidence of a range of skills and degree of difficulty
Briefly explain here the range of technical skills which you used in your project.
Include here the techniques and skills you used to overcome problems which were encountered in the production of you project.
Explain any hidden complexity of which the examiner may otherwise not be aware – this will help direct the examiner's attention to skills which may not be obvious by simply inspecting your project.

Range of Skills and Degree of Difficulty

Photo/Screenshot	Name of Skill	Description of Skill	Explanation of Difficulty

Overall evaluation of the range of skills and degree of difficulty within the product:		

Links between planning and production Here you must demonstrate evidence that your design, planning and management has been used for the production of your project. This means that your statement of intent, research, ongoing evaluation, time and action plan, finance plan and working drawings must all be accurately reflected in your completed project.
In this section direct the marker's attention by stating how each of the areas mentioned above are reflected in the finished product.

Links Between Planning and Production

Planning Element	Description	How Planning Element is Reflected in the Major Project	Evaluation of the Planning in the Creation of the Major Project
Statement of Intent			
Research			
Finance Plan			
Ongoing Evaluation			
Time and Action Plans			
Finance Plans			
Working Drawings			

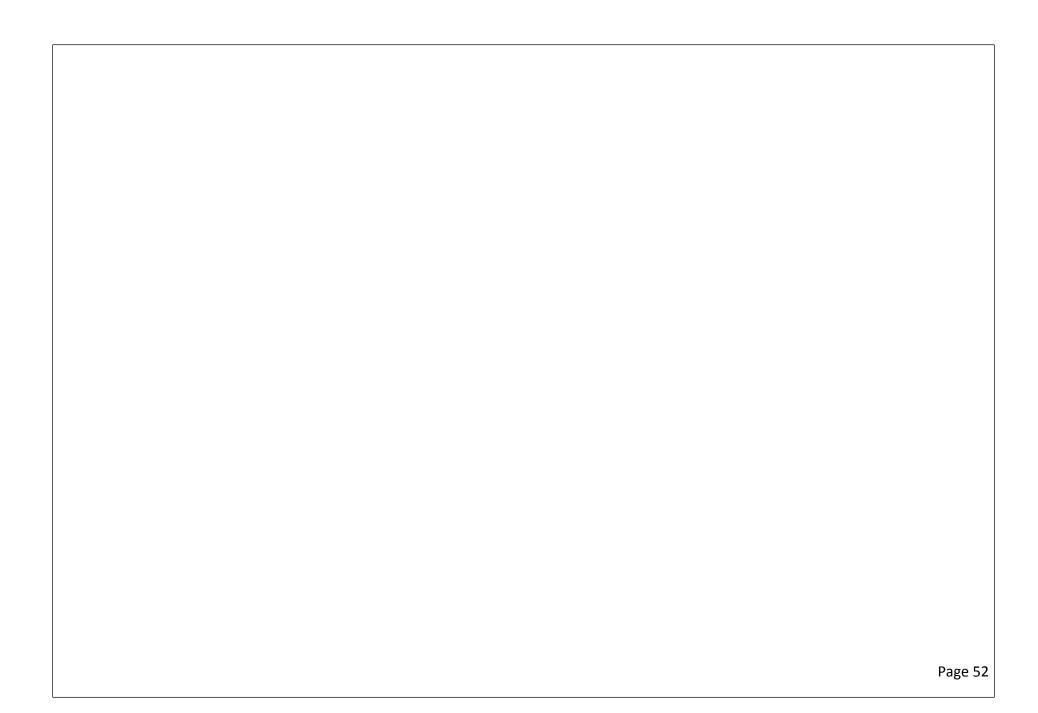
Copy of Sketch	Photo/Screenshot of Prototype	Photo/Screenshot of Final Product	Evaluation of your final product in relationship to planning

Jse of appropriate ma	terials, components, processes a uld list the materials, component	nd technologies	tios that you used in your	project and demonstrat	o how you
n this section you sho appropriately used the		s, processes and technolo	gies that you used in your	project and demonstrati	e now you
ppropriately asea the					

Use of Appropriate Materials, Components, Processes and Technologies

Image Demonstrating Proper Use	Title	Description	Demonstration of Proper Use	Why Was this	
		•	·	Chosen	
				CHOSCH	-
					_
	I				
Image Demonstrating Proper Use	Title	Description	Demonstration of Proper Use	Why Was this	
		-	_	Chosen	
				0000	
				100 100 110	
Image Demonstrating Proper Use	Title	Description	Demonstration of Proper Use	Why Was this	
				Chosen	
Imaga Damanstrating Braner Has	Title	Description	Domonstration of Drange Has	\A/by \A/aa +b:-	
Image Demonstrating Proper Use	ritie	Description	Demonstration of Proper Use	Why Was this	
				Chosen	

Evidence of solutions to problems in production
This is the only real means of communicating to the markers what practical problem solving took place during design and construction.
Direct the marker's attention to the problems which you solved during the design and production of the project. This can be done with reference to the ongoing evaluation as well as to the finished product.
Students are required to develop solutions to problems discovered.
Note : Multimedia projects that use software incompatible with school software must provide suitable hardware for markers to view the final presentations.



Evidence of Solutions to Problems in Production

Description of Problem	Description of Solution	Evaluation of Solution
	Description of Problem	Description of Problem Description of Solution