

## **Exemplar for Internal Achievement Standard**

## 91609 Level 3

This exemplar supports assessment against:

### Achievement Standard 91609

#### Undertake project management to support technological practice

An annotated exemplar is an extract of student evidence, with a commentary, to explain key aspects of the standard. It assists teachers to make assessment judgements at the grade boundaries.

New Zealand Qualifications Authority

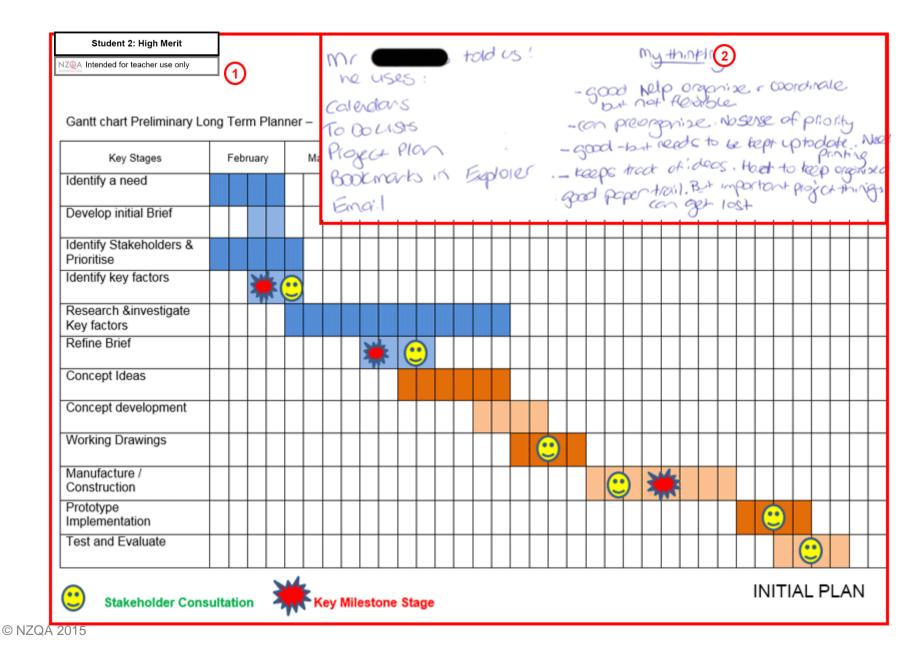
To support internal assessment

	Grade Boundary: Low Excellence
1.	For Excellence, the student needs to undertake efficient project management to support technological practice.
	This involves optimising time and material use to ensure completion of an outcome, through ongoing reflection of the practice undertaken, and revision of project scheduling.
	This student has undertaken project management to support the development of a shop window for a retailer exploring visual merchandising, product development, graphic design and branding.
	The student has provided evidence of using tools to optimise time and material (1) use to ensure completion of an outcome. Ongoing reflection of practice undertaken is seen in the critical review (2). Revision of project scheduling has been done in an ongoing manner (not exemplified).
	For a more secure Excellence, the student could undergo further revision of the project schedule.

	Project Management tool: Google Calend	dar	Student 1: Low	Excellence	
2	Helpful (to achieving the objective)         Strengths         It connects directly to your Gmail account – accesses your contacts and dates / appointments connected to your email.         Can be shared with others, ideal for group work         Reminders and alerts can be set to each entry         Get reminders sent to you by text         Opportunities         Complements other google software         Has similar format to my written diary so easy to transfer information in same layout.	Harmful (to achieving the objective         Weaknesses:         • Does not sync well with any apple cal         • Only an android app – not convenient members have apple         • No list function – hard to tell if you have day's tasks. Can't add subtasks.         Threats         • The google account I use is the school of the school system goes down, then access to the project calendar	as some group re completed the I google account. I dont' have	to sales Hi, my nam year 13 stu Currently in project whe a retailer. M we could do	dent from college. design we are doing a school re we design a shop window for by group and I were wondering it to so with your shiop. I have letter from my Teacher with mation.
1	Online product, so likely to improve  Summary: I will not be using google calendar as I do not to note down important dates and can also enter these da Therefore I will be sent alerts for when tasks need to be co      Pinterest – 7/0      Wanda Harland	tes into Trello which has a great time managemet ompleted by which is what my written diary lacked	ing my written diary applications.	9/03/	15 2500 There
	<image/> <image/> <image/> <image/>	<ul> <li>A standard definition of the standa</li></ul>		ыны (рала)) (рала) (рала)) (рала)) (рала)) (рала)) (рала)) (рала)) (рала)) (рала)) (рала)) (рала)) (рала)) (рала)) (рала)) (рала)) (рала)) (рала)) (рала)) (рала)) (рала))) (рала))) (рала))) (рала))) (рала)))) (рала)))) (рала)))))))))))))))))))))))))))))))))))	Number     Number       Number     Number
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Date: 10/03/15	Critical review n	umber: 2		(· )
- Barev - Colo - Color - Color	Key milestones this week	Positives	Problems actual/anticipated	Next steps
lime frame	We are up to dale with all of our book work	We have begun our Developments, will be able to Complete them by the end of tunes.	"We spent longer on deciding what concept to devolup than a Hicihated.	Complete developme and of the week.
	We decleded what each appeal of-our shop window will be made out of, eg 3-Dipinballer ward.	·We have assies to 3-D Prinker-acceler to use this	• It will be difficult to find he accord wall paper or paint colors we want for he walls.	Begin to gaher a. Matematis in paper lonstruction rest-m
Tools	Finally getting wiowing	· Storting to use intituator to beign to curelep our unity sheck us.	-want to capture.	· huter construction Next werk · Do trai mai with 3-0 printers.
Equipment	Tive and the second	Minnis		Miprove me
Research information	· Finding Re Wall paper ousign l'inspiration for our wall juper backmont.	Always velering buch to our reasthauch for information and also being able to Arew rew lay as from this	Finding a sufficient option / Wall paper to lover the loach Wall of the ciete.	hother more typ typography resse
Stakeholders			Client hasn't emouted through the jong file of the logo	Ack client to va logo Send Knorgh our
Specialist knowledge/skills	*Trying out our new tillishor Skill; we leave them ethen.			
Project management tools	·Begun to uso trelli loc the first time.	· PINKsest was very ethicent and effective while during our research - all could add to such box	We have not accessed our trello account/used trello.	

	Grade Boundary: High Merit
2.	For Merit, the student needs to undertake effective project management to support technological practice.
	This involves:
	<ul> <li>demonstrating project scheduling informed by a critical analysis of existing practices in project management</li> <li>reviewing progress at critical review points to revise and/or confirm project scheduling to ensure completion of an outcome.</li> </ul>
	This student has undertaken project management that supported the development of home workstation.
	The student has provided evidence of project scheduling (1) informed by a critical analysis of existing practices in project management (2). The progress has been reviewed at critical view points and has been revised to ensure completion of an outcome (3).
	To reach Excellence, the student could optimise time and material use to ensure the completion of an outcome by further effective use of planning tools.



Key Stages	February	March	1	\pril	May		June	July	August	September	0
Identify a need											
Develop initial Brief											+
Identify Stakeholders & Prioritise			5	rekend	ders mai the desire	ons n P	e later lacess.		mer Joep	h K dł Wy undin. Wyte	(and
Identify key factors	*	<u>.</u>							my idea.		
Research &investigate Key factors									S THIS	ned the en	Se (
Refine Brief			*	:							
Concept Ideas									II A	find my b	Rf
Concept development									Cha	ga - keebaa	K
Working Drawings						2	<b></b>				1
Manufacture / Construction		where the state							*		
Prototype Implementation		school						working or re 1944 3	1 schuluck	<b></b>	
Test and Evaluate									-gerig		
Stakeholder Cons	>	Key M			2		a	ausled tim	neline -1	Resion 4	

	Grade Boundary: Low Merit
3.	For Merit, the student needs to undertake effective project management to support technological practice.
	This involves:
	<ul> <li>demonstrating project scheduling informed by a critical analysis of existing practices in project management</li> <li>reviewing progress at critical review points to revise and/or confirm project scheduling to ensure completion of an outcome.</li> </ul>
	This student has undertaken project management to support the development of a shop window exploring visual merchandising, product development, graphic design and branding.
	The student has demonstrated project scheduling (not shown here) informed by critical analysis (1) of existing practices in project management (2).
	Evidence is provided of reviewing progress at critical review points to revise project scheduling to ensure completion of an outcome (3).
	For a more secure Merit, the student could review progress in further depth at critical review points to revise project scheduling to ensure completion of an outcome.

Student 3: Low Merit NZ@A Intended for teacher use only project management is to use tools, such as trello & As a result of talking with both pinterest. These tools can help you and your group. and 🌑 save time and keep you orginized to keep you 🕽 I can see up to date with your project that I should consider Trello and Pinterest to help coordinate my project. what are the pros of each project management Analysis: 12/601 (1) Trello has: easy layout both use trello and pinterest appealing and to give ideas and inspiration to them, they organising free to use also both have meekly meetings to plan the week Pinterest: they both plan their time well and they set 00015 simple to use appealing can be used on a EWhat are the cons of the company's project managemobile app ment tools? everyone can use and see your both have one set fool that they use wethier pins they both have one so this trello or pinterest. K Which do you feel most effective, why? b is most effective because 1994 they are better with their communication skills they have more weekly meetings and in the end they get a better outcome. the most important advice you go for KWhat Nas both and Communication skills are important, but not to much. What advice of information will you use to help your project? ow to to do, blan, set dates, goals, be orginized Decision:

I am going to use a good calendar app that I can use anywhere. It will keep me organised and gives alarms for when your things are due.

I will also use Trello which can be used on a Mobile app. It will keep me organised and can be set up in different files and pictures and fonts. I can pin with my group

Pinterest is the other project management tool. I will be able to use it on my mobile app and share with my group. I can pin anytime I want. It will help me get organised and I will be able to save my pins.

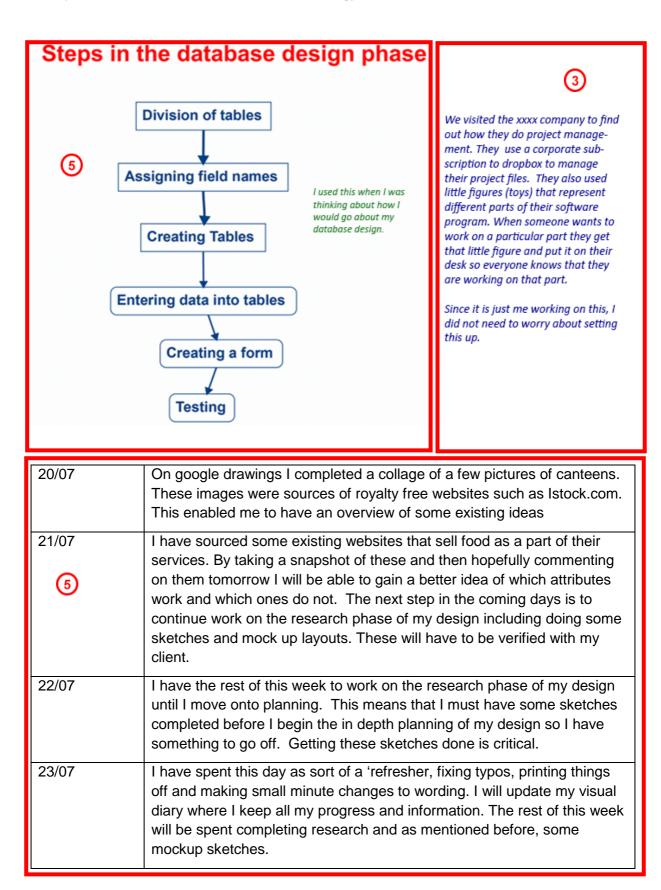
		PROJECT CRITICAL REV	IEW POINT	
Date: 22.0	3 · 2015 Critical review	number: 3 3		
$\mathbf{N}$	Key milestones this week	Positives	Problems actual/anticipated	Next steps
Time frame	· paint crate · vinal sticker	Can start paintin grate and then a the lights and a	ading	
Materials	• string • more cups	Can Start hanging the cups on crate	glights and small	Vinyl Find
Tools	· illustrater Finish final des	painted.	support the second second	Measuring tapes, sorew drivers.
Equipment	finish final des paint brushes	can the start pointing the		Book vinyl cutter
Research information	add more infor about the crate	mation more idea	2	
Stakeholders	·Milkcrate • Mrs Watson	can help with crate		
Specialist knowledge/skills	Horked on 1/14- Strater. → liHle	En Stedae	It took longer than I expected. A program to learn!	will need to learn how t use vingl outter.
Project management tools	photos and scret	×- ×		
Teacher sign off:	Shor.			

	Grade Boundary: High Achieved
4.	For Achieved, the student needs to undertake project management to support technological practice.
	This involves:
	<ul> <li>establishing a project schedule reflective of the physical and social environment where the outcome is to be developed and implemented, informed by existing practices in project management.</li> <li>implementing the project schedule to coordinate goals, planning tools, resources and progress review points in a coherent manner to ensure completion of an outcome.</li> </ul>
	This student has undertaking project management to support the development of a website and corresponding database for a school tuck shop.
	The student has established a project schedule (1) reflective of the physical and social environment where the outcome is to be developed (2) and implemented (not shown here). The student's practice has been informed by existing practices in project management (3).
	The student has implemented the project schedule to coordinate goals (4), planning tools (5), resources (not shown here), in a coherent manner to ensure the completion of an outcome.
	To reach Merit, the student would need to provide evidence of revising the project scheduling or confirming that the schedule is appropriate to ensure the completion of the outcome, and providing further evidence of analysis of existing practices in project management to inform project scheduling.

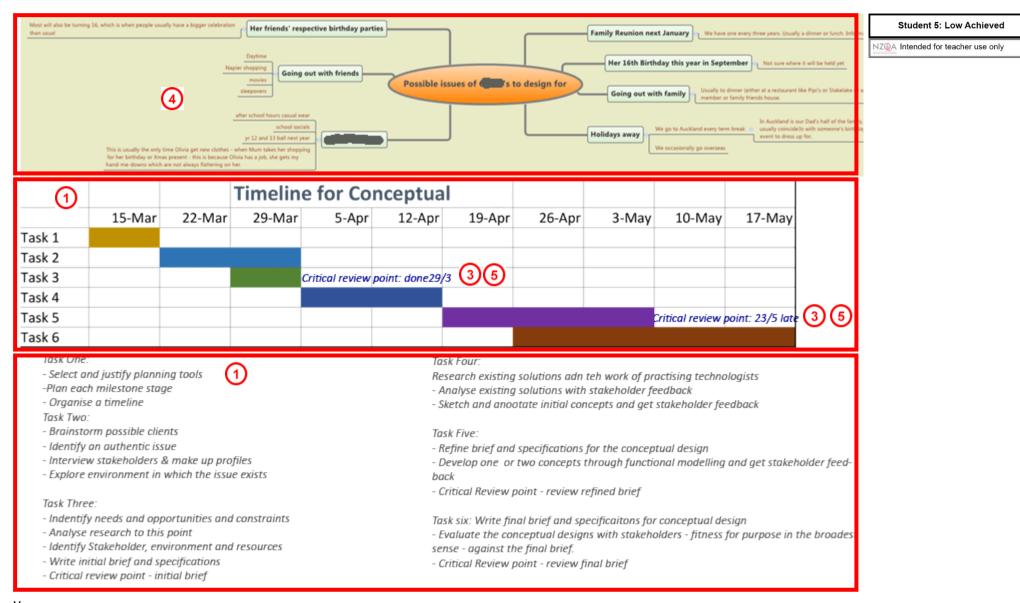
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Project Start		0d?				•	07/27/201	5												-	NZQA	inte	ended		leach	erus	e oniy		_
Researching		11d?				-																							
Write up initi	al brief	5d?	Me			-			Me		_																		
Brainstorm i	deas about the topic	1d?	Me								• <b>=</b>  "	te		_						С	omp	ute	er ha		,				
	into research - design of websites/ datatbas	3d?	Me,Client,Stake	holder 1							- 4			M	e,C	ient,s	Stak			k	pto			2)					
Refine the b		20?	Me,Client											4	-		-	-1	le,Cl	lient									
Critical Review -	- refined Brief	0d?	Me,Client,Stake	holder 1														1	08	/10/2	2015 N	le,C	Sent,	Stak	eholo	Ser 1			
□Planning		4d?																	-										
Begin to dev	elop design	1d?	Me																1						Con	npu	ter n	oom	
Fonts		1d?	Me,Stakeholder	1																1	Ae,Sta	skeh	older	1	lapt	ор			
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	Project Start			0d?		0%									1	• 0	7/2	7/2	015		10								
1	⊟Researching			11d?		100	0%														111	1							
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# Planning Toc

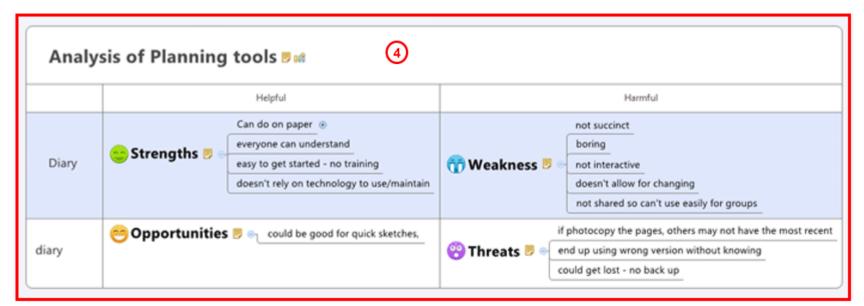
Trello, Ganntter, Diary, Dropbox, (for stakeholder and client consultaitons) - need to analyse these to decide which ones will help me meet my deadline



Grade Boundary: Low Achieved
For Achieved, the student needs to undertake project management to support technological practice.
This involves:
<ul> <li>establishing a project schedule reflective of the physical and social environment where the outcome is to be developed and implemented, informed by existing practices in project management</li> <li>implementing the project schedule to coordinate goals, planning tools, resources and progress review points in a coherent manner to ensure completion of an outcome.</li> </ul>
This student has undertaken project management to support the development of a textiles project to make a garment suitable for her client to wear.
The student has provided evidence of establishing a project schedule (1) reflective of the physical and social environment where the outcome is to be developed and implemented (not shown here), informed by existing practices in project management (2).
Evidence is seen of how the student has implemented the project schedule to coordinate goals (3), planning tools used (4), resources and progress review points (5) in a coherent manner to ensure completion of an outcome.
For a more secure Achieved, the student would need to show evidence of the implementing of the project schedule to achieve goals rather than producing just an initial plan. Also, the student could show evidence of revising their project at critical review points.







Parries	Total	Gener arreador	I used post-it notes to map out the steps that I will need to do in my pro- ject.	Task       Starti         Key decisions I have made reconnected       Next I am going to:         Next I am going to:       Resources I will need to use:         4       4	Intended date of completion           ently:         I have made these because:           I am going to do this because:           People I will need to contact:
Conser of Asserts	lsong 10 Reserved	CLOV 10 Consultation	Constant Barnes	a Gantt chart provides a gra helps her plan, coordinate, o	textiles came to talk to us, she told att chart to run their projects. She said phical illustration of a schedule that and track specific tools ina project. She to do well at the beginning and through

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	Grade Boundary: High Not Achieved
6.	For Achieved, the student needs to undertake project management to support technological practice.
	This involves:
	<ul> <li>establishing a project schedule reflective of the physical and social environment where the outcome is to be developed and implemented, informed by existing practices in project management.</li> <li>implementing the project schedule to coordinate goals, planning tools, resources and progress review points in a coherent manner to ensure completion of an outcome.</li> </ul>
	This student has undertaken project management to support the development of an appropriate garment to be worn to a formal function during a medical conference.
	The project schedule (1), that is reflective of the physical (2) and social environment (not exemplified) where the outcome is to be developed (2) and implemented, has been established. The student has provided evidence of being informed by existing practices in project management (3).
	The project schedule to co-ordinate goals has been implemented. Planning tools (4), resources (5) and progress review points (6) in a coherent manner to ensure the completion of an outcome have been implemented.
	To reach Achieved, the student could provide evidence that the project plan supported the technological practice by showing the updates of actual progress against the planned progress, and that their practices were informed by existing practices in project management.

				- OF Mitial Play 64 Plan 19-25 Feb 26 Feb - 4 (5-11 Mar 12-18 Mar 19-25 Mar 26-Mar					Student 6: High Not Achieved				
		Page 2 of initial Ployfor Plan								NZQA Intended for teacher use only			
				the second s			19-25 Mar	26-Mar 1 A	2-8 Apr	9-15 Apr	16-22 Apr		
	8. Practising technologist												
_	9. Further Research			Constant -								pres	s.
(1)	a) Trends											te of	1.0
	b) Design and technological principles		and the second	-									
	c) Existing designers and solutions			Sec. 2								01-9	P
	10. Initial conceptual ideas				C. Contractor	10000						time	2 4
	a) drawings			1	Constant of the	In the second second						60,00	p
	b) Stakeholder feedback												
	11. Development				Constant of the local division of the local								
	a) further research of details						Provide State					the second s	,
	b) materials research and possible						A COMPANY OF THE REAL PROPERTY OF	100000				60	1-
	choices.												
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-).	location of time to, a - this is port of is base my ploject and doctors conference. I have decided to evaluate the effective the success of the p	plan	day b of th	y dey is. es	, in U , he Us	2C						881 3	
35.	To base my popol process as it infi the victorian era as 2015 brause my che Music: The victorian sculptures o	avorine inence	influence	cesto cesto ce be	etics	I an	m nt	vested vested	n V:	dono-	decide foshio	20 to ug	e X.9

Exemplar for internal assessment resource Technology for Achievement Standard 91609

Resources ) (5) chient time ( 12 hour per week) - on going teetiles room (1 his per welle) - ongoing computer - drawing ( 10 hrs) through design phose woodlen materials - samples atton fabric for toile Fact wooker material for attance Consulted Mrs King, proport manager at the Textiles Ltd She is a costume designer and gave me very us ful information dout now things are done in the fashion design industry. I learned from her the importance of hoving a plan and studing to it. She uses pash -it notes on her desk to remind her of the jobs she has to do. she also has a big to do the list. Evaluation of Planning 31/3. (Sist March) My planning so for has proven to be effective as I have been able to manage my time effectively, to prioritise and remember tasks, and to complete in an efficient-way, so I had no an reason to change my nethod or frequency of planning. This may ( Change when it comes to my one off solution. what I need to do: 2/4/2013 2nd Ap.1 · Plan questions for stateholder feedback · Research the physical + social ospects of the locationprototype