

Core Fundamentals Glazing Journal

Apprentice Name:

Apprentice Mobile:

Company:

Company Address:

If Journal is found please return to the Student at the above address.

This publication has been developed by the Glass and Glazing Institute of New Zealand No Part of this publication may be reproduced, stored in, or introduced into a retrieval system or transmitted in any from or by any means without prior written permission.

Contents

.

. . .

Memo to Employer – Purpose of Self – Reflection Journal	1
Instructions for Apprentice	2
Tool list for Block Course	3
Course Timetable	4 - 7
Ideas for writing in your Self – Reflection Journal	8
Theory Exercises	
Customer Service	11 - 21
Legislation	22 - 25
Specifications, Plans and Sketches	26 - 32
Calculate and Order Materials	33 - 35
Practical Projects	37
Making A Template – regular, irregular and complex irregular shapes	39
Cutting Glass Using a Template – Story and pics of your work	40
Glazing Core Fundamentals Final Project	41 - 43
Price Materials	45
Grid to demonstrate your knowledge to schedule cost and price for final project	46 - 47
Feedback on your block course	48

To the Employer

Congratulations on making the commercial decision to train through the Glass and Glazing apprenticeship system.

Through regular mentoring the company will be rewarded with increased productivity which results in a better bottom line. Another trick to improve productivity is by ensuring the apprentice uses new skills learned at the block course within 8 weeks after returning to the workplace. It means the apprentice will be able to undertake more complex tasks whilst still on a lower wage rate.

The block course timetable is included so you know the content of the curriculum that is being taught. It shows, the skills that are learned and practiced, in an environment which provides the opportunity to improve from mistakes through guided learning, under the watchful eyes of the experienced tutors. The timetable also shows the homework study schedule set for each night. The homework study readings and modules are an essential component of off-job learning. Homework study is preparation for the next day at the course. Homework is mandatory to make sure the apprentice is able to keep up with the rapid pace of learning. Some apprentices prefer to begin the readings and the on-line learning modules before attending their block course and this is a really good time management.

This journal also contains a selection of projects connected to block course learning. The journal is a valuable tool for you to have a conversation once the apprentice returns to work. Your apprentice will be writing in this journal, completing theory exercises and reflecting on skills as undertaken in their practical projects. Analysing practical tasks and critically reflecting on their accomplishment, contributes to and enhances skills further. An apprentice is expected to develop personally though analysis of the learning process that he / she is undertaking by taking responsibility for their own learning outcomes. It is expected the company's investment in training will be rewarded.

The final "Practical Project" section of this journal depicts the challenge that is set by the tutors which covers <u>all</u> the learning from the course. Apprentices are given a set of plans with a brief that outlines which sections of the plans will be their "Project". The "Project" is set to enable the full process to be practiced - Health and Safety considerations, using and applying industry legislation standards and codes, interpreting plans / specifications working out variations, using knowledge of glass and the various applications, making a template and cutting glass with various shapes, measure from scale, calculate, price and order glass / materials.

Taking a genuine interest in your apprentices learning will enhance the skills of your employee for the betterment of your company. Please take the time to read this journal and have a constructive and encouraging conversation with your apprentice. Of course any feedback about the structure of this journal would be most appreciated and can be sent to gginz@outlook.co.nz

Kind regards Deb Paul General Manager Glass and Glazing Institute of New Zealand deb.paul@ggi.nz 021 455 515

To The Apprentice.

Shortly you will be attending your first block course at the Glass and Glazing Institute of NZ (GGINZ) in Lower Hutt, Wellington. Block courses (off-job training) are an effective way of learning and sharing skills and knowledge. Block courses allow you to learn with other apprentices who have a similar skill set, sharing the learning experience as you are working towards the same goals. Block courses are a really important part of your apprenticeship.

You are coming to a supported learning environment where you will be able to access knowledge and develop skills in an environment which fosters excellence, in a commercially competent time frame. When you return to your workplace you will be able to use your skills and work for your company as a more valuable employee.

For many of you it may be the first time you have lived away from home. Not only will you need to be responsible for your learning and personal safety, you will need to apply great time management skills. You will be expected to arrive at the GGINZ on time, well fed, rested and fully prepared to learn.

This Self Reflection Journal

The GGINZ (Glass & Glazing Institute of New Zealand) is contracted by BCITO to deliver your off-job training which prepares you for many of your final on-job assessments. Your on-job assessments are undertaken with the assessment team of your employer / supervisor, your BCITO Training Advisor and of course you. Being assessed is working towards being a qualified Trades-person with a New Zealand Certificate. The block course work and this journal will contribute to those assessments.

During the course you will complete the Journal pages titled *Self Review, How Well Am I Doing* and also the project pages where you are able to insert some pics of your work and write about how well you think you achieved the set tasks or what you would do differently. There are suggestions in Page 5 of this Journal to help you complete the Self Reflections of your projects.

Homework

Every night you will have homework. What needs to be done can be seen at the bottom of the timetable on the next page. Completing your homework is mandatory (complusory, not optional). It is preparation for your tutorials the next day. Without this preparation you are likely to find the tutorials difficult. It is OK to begin this homework prior to attending off-job training. If you are having difficulty with any of this work, or any other part of the course, please discuss with one of your tutors - Frank Cole or John Mortensen. Alternatively if you would prefer to speak with someone else contact the GGINZ General Manager, Deb Paul 021 455 515 or deb.paul@ggi.nz

As part of Unit Standard 19605 Customer Service you will complete several <u>on-line</u> modules through a website called Pathways Awarua. These modules can be seen at the bottom of the timetable under **Homework**. They have a number such as L2010. You will need to register on this learning website prior to the first day of course. Please bring your laptop, Ipad or notepad, smartphone with you. After Day 1 your device can be kept at your accommodation so you can complete your homework. if you are not so keen on reading let your tutors know as we are able to set you up so the GGINZ laptops will translate text to speech.

How to register with Pathways Awarua

Step 1: Go to the website GoPlacesNow.co.nz and click on the registration button and click on **Register Step 2:** Complete the form. The Join Code is F03891 (Upper case F, then the rest are numbers including the zero). Make the password one you will remember. **Step 3:** A confirmation email will be sent to you.

Things to bring with you to Block Course at the GGINZ

In addition to the safety gear / tools as requested - list on next page - please bring

- This Journal
- Laptop, IPad or Notebook, Gloves EN 388 3543

What tools will I need to bring to my block course?

oil glasscutter (4mm - 6mm) glazing roller ape measure stripping knife claw hammer dusting brush glass gauntlets calculator pen, pencil, paper and ruler glass gloves - EN388 3543 safety glasses safety boots

glass pliers leather apron (optional) silicone tooling spatula glass marking pens/pencils safety boots Your *BCITO* books

Clothing at Block Course

Please note: Both BCITO and the GGINZ are concerned regarding Health and Safety issues and apparel worn at Block Courses. Therefore, hoodies are deemed to be inappropriate and must <u>not</u> be worn whilst attending Block Course. Instead it is recommended that attendees wear their company uniform.

Glass gloves with the code EN388 are <u>compulsory</u> in the workshop area of the GGINZ. Bring them so you don't have to buy them while you are at course.

Where are my Block Courses held?

Block Courses are held at

Glass and Glazing Institute of New Zealand 3 Cedric Place Plimmerton, Porirua

It is walking distance from Plimmerton train station on the Kapiti Line. - 6 mins You can check it out for yourself in Google maps.

Core Fundamentals Course Timetable

	Core Fundamentals Course Timetable				
Week 1	Day 1	Day 2	Day 3	Day 4	Day 5
8.00 - 8.03			Roll - Tutors to note lateness / abs	ence	
Tool Box <u>H & S for daily</u> tasks.	9.00am Welcome & Introductions		Tool Box Meeting. H & S da set tasks	ily for	
8.15	Site & Naenae familiarisation	19605 Customer Service	19605 Customer Servio	ce 19605 (Customer Service 19605 Customer Service
8.45	Course Timetable		26079 Makir	ng a	2545 & 28208 DKO & Interpret Plans & Sketches &
9.45	Rules & Expectations Tutor no. in case of absence / emergency Induction Forms BCITO Rep		Template		28205 Apply Codes of Practice
10.00		Morning Break			
10.15	Health & Safety At Work Act Induction Orientation Emergency Plan, Evacutation 1st Aiders, Expectations at				
	course H & S Video Incident / Injury Reporting		28755 Cutting Manually	Glass	2545 & 28208 DKO & Interpret Plans & Sketches & 28205 Apply Codes of Practice
12.15			Lunch Break		
	for whole course		Speaker on E2/AS1		
2.45	Continue with Health &		Afternoon Break		
12.45 3.00	Continue with Health & 19605 Customer Service Safety Pathways Awarua. Register students, Start Introduction - Learn How To Use Pathways Awarua. Satrt Module L4010 Listening for Learning		28205 Apply Codes of F Standards for the Produ 28755 Cutting Gla Manually	ction of Glass Items	Field Trip to Processing Plant Field Trip to Processing Plant
	Tool Box meeting Form				

Week 1 Homework

Day 1	Day 2	Day 3	Day 4	Day 5
Pathways Awarua module L4010	Read BCITO Resource page215 -221 on Legislation	Complete Pathways A warua Modules L 2020 and W1020.	Complete Pathways Awarua L4040 module Please note: Modules L4010, L2010 L3010 & <u>L2020 MUST be</u> completed by tonight.	Read ready for Monday morning. BCITO Resource Pg 198 Keeping customers informed.
2 Read BCITO Resource Book Pages 188 - 193 about Customer Service	Read BCITO Resource page 222 on Codes	Read BCITO Resource, Page 195 about Customer Service	Read BCITO Resource Pgs 196 - 197 Customer Needs	
3 BCITO Resources Book Pages 156 & 157 on Area & Measurement.		Read BCITO Resource, Page 223 - 229 on Industry Standards	BCITO resources Pages 206 – 214 and 234 - 243 Glass Terminology	

12.15 Image: Lunch Break 12.45 Project / Challenge Project / Challenge Project / Challenge Project / Challenge Project / Challenge 12.45 Project / Challenge Project / Challenge Project / Challenge	Week 2	Day 6	Day 7	Day 8	Day 9	Day 10
8.15 28213 Calculate Price 2545 & 28208 DKO & Interpret Plans & Sketches & 28205 Apply Codes of Practice 19617 Order Materials 10.00 Morning Break 10.15 2545 & 28208 DKO & Interpret Plans & Sketches & 28205 Apply Codes of Practice 19617Order Materials 2545 & 28208 DKO & Interpret Plans & Sketches & 28205 Apply Codes of Practice 19617Order Materials 28213 Calculate Price 28213 Calculate Price 28213 Calculate Price 28213 Calculate Price 12.15 Lunch Break 12.15 Lunch Break 12.45 Project / Challenge Project / Challenge Project / Challenge	8.00 - 8.03		Roll -	Tutors to note lateness / absenc	e	
10.00 Morning Break 19617 Order Materials 10.00 Morning Break 19617Order Materials 10.15 Z545 & 28208 DKO & Interpret Plans & Sketches & 28205 Apply Codes of Practice 19617Order Materials 2545 & 28208 DKO & Interpret Plans & Sketches & 28205 Apply Codes of Practice 19617Order Materials 28213 Calculate Price Z8213 Calculate Price 10.15 Totos to explain what here re reports, further only assessment. Clean up a beiongings. Farewell. 12.15 Lunch Break 12.45 Project / Challenge Project / Challenge Project / Challenge Project / Challenge Project / Challenge Project / Challenge Project / Challenge			Tool Bo	x Meeting. H & S daily for set ta	sks	
Plans & Sketches & 28205 Apply Codes of Practice 19617 Order Materials 10.00 Morning Break 10.15 2545 & 28208 DKO & Interpret Plans & Sketches & 28205 Apply Codes of Practice 19617Order Materials 28213 Calculate Price 28213 Calculate Price Toors to explain what here ere reports, further only assessment. Clean up a beiongings. Farewell. 12.15 Lunch Break 1 12.45 Project / Challenge Project / Challenge Project / Challenge Project / Challenge Project / Challenge Project / Challenge Project / Challenge Project / Challenge	8.15				28213 Calculate Price	
10.15 196170rder Materials 2545 & 28208 DKO & Interpret 196170rder Materials Plans & Sketches & 28205 Apply 28213 Calculate Price Codes of Practice 28213 Calculate Price Tutors to explain what here re reports, further onjo assessment. Clean up a belongings. Farewell. 12.15 Lunch Break 12.45 Project / Challenge Project / Challenge Project / Challenge			Plans & Sketches & 28205 Apply		19617 Order Materials	
2545 & 28208 DKO & Interpret Plans & Sketches & 28205 Apply Codes of Practice 28213 Calculate Price Tutors to explain what h here re reports, further orple assessment. Clean up a belongings. Farewell. 12.15 Image: Comparison of Compariso	10.00			Morning Break		
Plans & Sketches & 28205 Apply Codes of Practice 28213 Calculate Price Tutors to explain what his here re re project, further only assessment. Clean up a belongings. Farewell. Tutors to explain what his here re re project, further only assessment. 12.15 Lunch Break Image: Clean up a belongings. Farewell. 12.45 Project / Challenge Project / Challenge Project / Challenge Project / Challenge Project / Challenge 3.00 Project / Challenge Project / Challenge	10.15				19617Order Materials	
12.15 Image: Lunch Break 12.45 Project / Challenge Project / Challenge Project / Challenge Project / Challenge Project / Challenge 12.45 Project / Challenge Project / Challenge Project / Challenge			Plans & Sketches & 28205 Apply		28213 Calculate Price	
12.45 Project / Challenge Project / Challenge Project / Challenge 2.45 Afternoon Break 3.00 Project / Challenge Project / Challenge						Tutors to explain what happens from here re reports, further on-job study and assessment. Clean up and collect belongings. Farewell.
2.45 Afternoon Break 3.00 Project / Challenge Project / Challenge	12.15			Lunch Break		
3.00 Project / Challenge Project / Challenge Project / Challenge Project / Challenge	12.45	Project / Challenge	Project / Challenge	Project / Challenge	Project / Challenge	
	2.45			Afternoon Break		_
	3.00	Project / Challenge	Project / Challenge	Project / Challenge	Project / Challenge	
4.25 Tidy up Classroom Kitchen Toilets Page 6	4.25		Tidy up Classroom Kitchen Toilets			Page 6

Wk 1 Hom

Week 2 Homework

Day 6	Day 7	Day 8	Day 9
Complete Pathways Awarua L3020 module	Read BCITO Resource 201. Complete any unfinished modules.	Read BCITO resource Pages 263 to 272 - Gather information, costs, pricing.	BCITO Resource Pages 253 to 262 Ordering
Read BCITO Resource Pages 199 - 200. Dealing with Complaints	BCITO Core Fundamentals Resource book for Apprentices – Chapter 4 Glazing Materials Pages 127 - 141		BCITO Core Fundamentals Resource book for Apprentices – Chapter 4 Glazing Materials Pages 142 - 152
Read BCITO Resources Pages 246 & 247 Quantities, 248 & 249, Reference to Other Drawings & Documents, Page			BCITO Core Fundamentals Resource book for Apprentices – Chapter 4 Glazing Materials Pages 127 Chapter 9

Theory Exercises

After each homework reading there are some Self Review exercises to complete. You are able to check to see how you are doing as the answers are upside down on the bottom of the page.

The pages with a red border titled How Well Am I Doing will be completed during class time.

Unit Standard 19605 Provide Customer Service in the Glass Industry

Purpose of Unit Standard 19605

Apprentices are learning skills to make initial contact with customers; determine and record the customer's needs; inform customers of work progress; respond to customer complaints and build customer loyalty. The following outcomes are a part of block course learning. With further experience on-job, this unit standard will be finally assessed by your BCITO Training Advisor in the workplace.

Pathways Awarua are online learning modules to build essential skills for work. The following modules have been completed by your apprentice as "homework", in conjunction with classroom learning at the Glass and Glazing Institute of NZ.

How to register with Pathways Awarua

Step 1: Go to the website GoPlacesNow.co.nz and click on the registration button and click on Register Step 2: Complete the form. The Join Code is F03891 (Upper case F, then the rest are numbers including the zero). Make the password one you will remember.

Step 3: A confirmation email will be sent to you.

Apprentices please record the results of these Modules as they are completed:

Body Language L2010,	Completed / not completed
Listening Skills L3010,	Completed / not completed
Taking a Message L2020,	Completed / not completed
Writing a Note W1020,	Completed / not completed
Greeting Customers & Taking Company Phone calls L4040,	Completed / not completed
Listening to Solve Problems L3020.	Completed / not completed



19605 Customer Service Self Review

This review covers what you have learned from your BCITO Glass and Glazing Core Fundamentals Book pages 188 to 193. You may like to go back to check before you mark the statements right or wrong.



	✔ or X	
1 Personal hygiene is about keeping yourself clean.		6 Write information in the best way you can.
2 Grooming is about how you look to your customers.		7 Active listening lets you to do other jobs while you
3 What you say is more important to your customers		are talking to a customer and saves company time.
than your appearance.		8 Active listening involves paraphrasing what the
4 It is best to follow company procedures when you		customer says by putting it into your own words.
make contact with a customer.		9 You will lose the sale if you let the discussion with a
5 Two important goals when making initial contact with		customer go silent.
a customer are to make them feel welcome and find out what their needs are.		10 A customer's body language will tell you how they feel.

Page 12

V or X

Answers ∧ 1, 2, 4, 5, 8 and 10.



This review covers what you have learned in BCITO Core Fundamentals Resource Book page 195. You may like to go back to check before you mark the statements right or wrong.



	🗸 or 🗶		✔ or X
1 Begin by asking the customer general questions to get the big picture before you ask for the details.		5 Don't waste time explaining procedure to your customer.	
2 You should use language to suit each customer, depending on how much they understand about the service or product.		6 It is part of your job to tell customers about the procedures your company follows in working with customers.	
3 How you treat customers will affect how they think about your company.		7 Customers will think you are clever if you use technical language, as this will show that you are	
4 It's okay to leave gaps when making out a form, because someone else can fill in the small details.		an expert.8 Showing customers brochures and products is better than telling them about them.	

Answers You should have 🗸 1, 2, 3, 6 and 8



This review covers what you have learned in the BCITO Core Fundamentals Book pages 199 to 200. You may like to go back to check before you mark the statements right or wrong.

✓ or X

- 1 Use the phone, email or formal reports to inform customers.
- 2 Negotiate a reporting schedule for every job, no matter how small.
- 3 Customers should always be kept up to date about work progress.
- 4 Let customers contact you first about any changes to delivery, rather than waste time worrying them before hand.

		✓ or X
5	Negotiating with the customer about work in progress is part of the job.	
6	When negotiating work progress with the customer it is important to find out how they want to be kept up to date.	
7	Email, phone and fax are important to use, when keeping your customers informed about work progress.	
8	Reporting schedules should be set up for every customer you work with.	

Answers You should have 🗸 1, 3, 5, 6 and 7



This review covers what you have learned in BCITO Core Fundamentals Book page 201. You may like to go back to check before you mark the statements right or wrong.



		✓ or X
1	The first thing to do when you receives complaint from a customer is to remain positive.	
2	Most people enjoy complaining, so don't take it seriously.	
3	It is important to acknowledge the complaint before you try to solve the problem.	
4	It is important to refer the complaint to someone else as soon as you can.	

		✔ or ¥
5	Don't apologise too soon, as the customer may have it all wrong.	
6	It's the customer's job to identify the problem.	
7	Follow company procedures when dealing with complaints.	
8	Customer complaints will destroy your relationship with the customers.	

Answers You should have 🗸 1, 3 and 7



This review covers what you have learned in BCITO Core Fundamentals Book page 201. You may like to go back to check before you mark the statements right or wrong.



		🗸 or 🗶
5	Showing customers a 'can do' attitude will show that your company responds to their needs.	
6	Timeliness is about knowing your hours of work.	
7	You should make sure each customer gets the best quality product or service they can afford for their money.	
8	Your personal integrity will affect long term relationships with customers.	

Answers V 1, 3, 5, 7 and 8 You should have 🗸 1, 3, 5, 7 and 8



Customer Service How Well Am I Doing

Customer service

Unit Standard 19605

Outcome 1.1, 1.2, 1.3

All answers must be your own work, without help from anyone.

1 What is your workplaces dress code

3 When would you use paraphrasing?

2 What can you learn from your customer body language?

Continued on the next page.

This means repeating what you heard the customer say in your own words to check you have heard correctly.



Customer Service How Well Am I Doing Cont'd

Customer Service Unit Standard 19605 Outcome 1.4

What information do you need to write down when you are talking to the customer on the phone?

Customer Service How Well Am I Doing? Cont'd

Keeping customers informed.

Outcome 3 to 5

All answers must be your own work, without help from anyone.

1 Did you and the customer agree on the information to be reported?

How

When

2 How did you report work progress to your customer?

Continued on the next page.



19605 Customer Service How Well Am I Doing? Cont'd



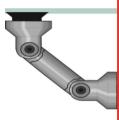
Responding to Complaints Outcome 4.1 3. What would you say to a customer who came to you with a complaint?

All answers must be your own work, without help from anyone.

4 What would you do to deal with or fix the problem?

Continued on the next page.

19605 Customer Service How Well Am I Doing? Cont'd



Customer loyalty5 How can you make customers happy so they bring your company return business?Unit Standard19605 Outcome 5.1

All answers must be your own work, without help from anyone.

6. When is it the *best* time to give customers more information about other products and services?

Self review Legislation US 28205

This review covers what you have learned from you readings and class tutorials for US 28205 Apply codes of practice and industry standards to produce glass items Draw a line to connect the name in the middle to the correct definition in the rectangles.

To protect the public from being misled or treated unfairly by traders or shopkeepers. It ensures that customers get information about certain products, and helps to make sure products are safe.

To prevent harm to workers and other people in workplaces. Employers and others are expected to make sure that their actions at work do not result in harm to other people, including members of the public.

To lay down the rules for employers and employees when making an employment agreement. The act takes an "employment relationship" approach and refers to collective and individual employment agreements.

Answers

You can check your self review answers on page 90.

The NZ Building Code

Health and Safety in Employment Act

The Fair Trading Act

The Consumer Guarantees Act

The Employment Relations Act

Compliance documents

The Building Act 2004

To set minimum standards that traders must meet for all goods and services that they sell. The aim of this legislation is to protect consumers by making sure they get what they pay for.

To set out what New Zealanders expect with regard to the quality of buildings. It lists building objectives to be achieved, rather than the construction methods to be used.

To make sure that new buildings are designed and built properly. It also applies to the alteration, demolition and maintenance of existing buildings. This means it applies to all glass and glazing work on every building site throughout New Zealand.

To help people meet the Building Code. They include a New Zealand Building Code Handbook and 35 documents telling about the 35 clauses in the code.

How Well Am I Doing? Legislation



Legislation that applies to the glass industry.

Outcome 1.1, 1.2, 1.3

All answers must be your own work, without help from anyone.

Cntinued on the next page.



Briefly describe the general intent or purpose of the Health and Safety in Employment Act

Describe three ways in which the health and Safety in Employment Act affects employers in the glass and glazing industry.

1

2

1

2

3

3 Describe three ways in which the Health and Safety in Employment Act affects employees in the glass and glazing industry. Briefly describe the general intent or purpose of the Consumer Guarantees Act.

Describe three ways in which the Consumer Guarantees Act affects employers in the glass and glazing industry.

1

2 3 Describe three ways in which the Consumer

Guarantees Act affect employees in the glass and glazing industry.

1 2 3



Briefly describe the general intent or purpose of the Employment Relations Act

Describe three ways in which the Employment Relations Act affects employers in the glass and glazing industry.

1
2
3

Describe three ways in which the Employment Relations Act affects employees in the glass and glazing industry.
1
2
3

2000 covers
1
2
3

What are the three provisions that the Employment Relations Act

What are the two types of employment agreements?		
One is a	_ agreement	
One is an	_ agreement	

Employment agreements set out the minimum conditions for which you will work. These must include the following three things.
1
2
3

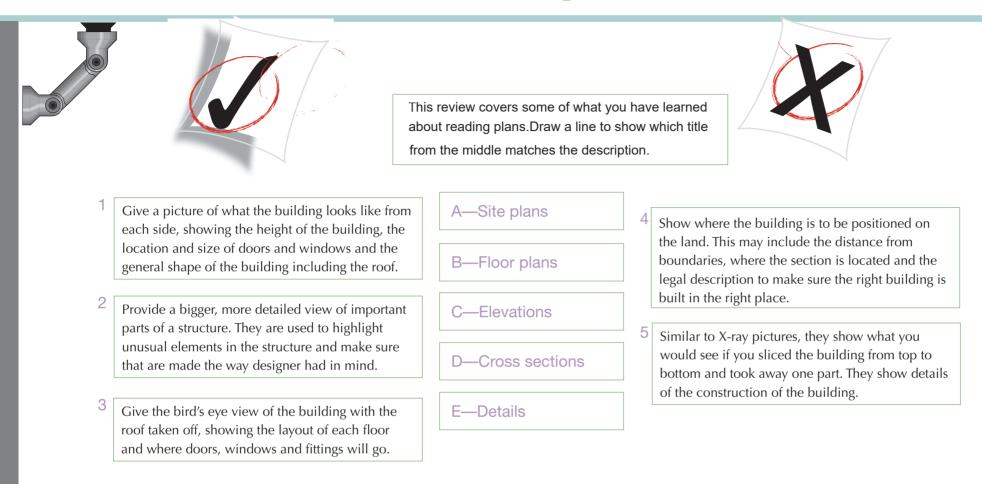
Continued on the next page.



How Well Am I Doing? Legislation Cont'd

Briefly describe the general intent of purpose of the Fair Trading Act.	Briefly describe the general intent or purpose of the Building Code
Describe three ways in which the Fair Trading Act affects employers in the glass and glazing industry.	Describe two objectives in which the Building Codes safeguards people 1
2 3	2
Describe three ways in which the Consumer Guarantees Act affect employees in the glass and glazing industry.	Building Code compliance documents include a Handbook that contains information on building materials and construction details. Describe the following building methods
1 2	1 Acceptable solutions 2 Verification methods
3	3 Name two examples of compliance documents

Self review - 2545 Interpret Plans & Sketches



A=4 B=3 C=1 D=2 E=2 Answers

How Well Am I Doing? Abbreviations

US2545 Demonstrate knowledge of specifications, sketches & plans --Abbreviations outcome 1.1

All answers must be your own work, without help from anyone.

This work continues on the next page.



1Write the abbreviations for the following glazing terms2Explain these terms to a customer using your own words.			
Cast in place			
Low emissivity glass			
Ultra violet			
Insulated glass unit			
Polyvinyl butyral			
Window & Glass Association of NZ			
Flat polish			

How Well Am I Doing? Symbols

US 2545 Demonstrate Knowledge of specifications sketches & plans.

Glass Terms Outcome 1.1

All answers must be your own work, without help from anyone.

This work continues on the next page.



2	2 Draw three symbols that you have found on work documents and explain them			

3 Looking at the floor plan of the house on page in the plans copy the symbol for:		
An opening window	Stairs	
Shower unit	An external door	

How Well Am I Doing? Glass Terms

US2545 Demonstrate knowledge of specifications sketches & plans.

Glass terms and using references

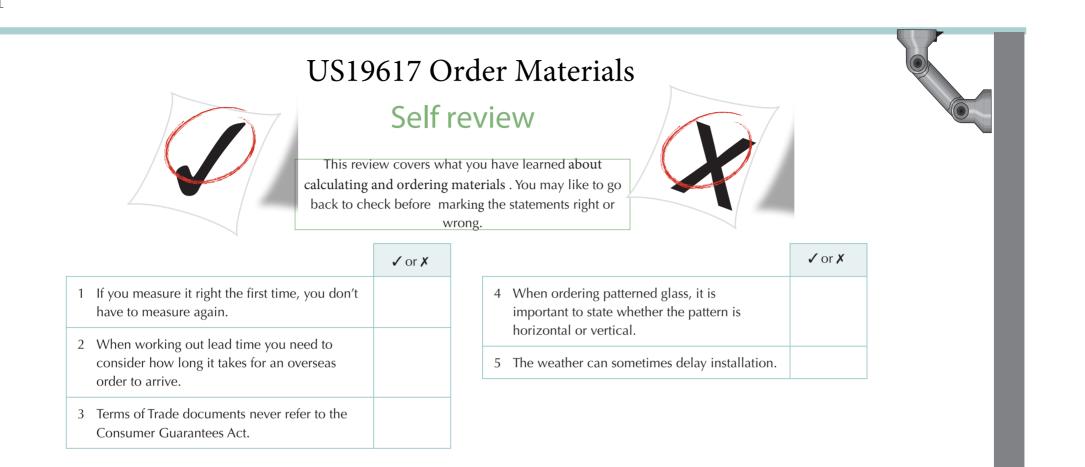
All answers must be your own work, without help from anyone.

5 When you come across new glass and glazing words, where can you look them up?

4 In your own	words, write the meanings of the following glass terms
Condensation	
Heat transfer	
Laminate glass	
Rebate	
Slump glass	
Weather seal	

6 Name three websites or reference materials you have used to help in your work

7 Why is it important that the information you give to customers applies to New Zealand conditions and standards?



Answers You should have 🗸 2, 4 and 5.

19617 Pricing Materials

This review pricing You n	nay like to go ba ements right or w	bu have learned about ack to check before you		
	✓ or X		🗸 or 🗶	
The first step is to write down the information you need to price a job from drawings,		5 Detailing work for pricing should include the thickness and also the weight of the glass.		
specifications, tables, charts and site measurements.		6 Detailing work for pricing should include fixing materials.		
To calculate the weight of putty used, work out the perimeter and multiply by 2.4kg.		7 It doesn't matter if you use an old pricing list to quote for a job.		
The WGANZ Guide to NZS 4223: Part 3: is useful when pricing a job.		 8 Verifying your information means checking it is accurate. 		
Some measurements may need to be carried out on site before you can price a job.			<u></u>	

Answers You should have **V**.1, 2, 3, 4, 6 and 8 .

1

2

3

4



US28213 Calculate & Order Materials. How Well Am I Doing?

All answers must be your own	
work, without help from anyone.	
Outcome 1.1 Specifications	Ordering glass
Outcome 1.2 2.3 Progress Schedule	When ordering glass, what four details do you need to record.
Outcome 2.1 Work Assigned	1
Outcome 2.2 Work methods	1
	2
What do the architectural plans of trade say about:	
Pricing	3
	4
Invoicing	
	Attach a copy of a glass order filled or made by your company
Payments	
	Glass processes
	What are three important details to record when ordering glass drilling
How does your workplace track:	1
Work completed?	
	2
Payments made?	3

Practical Projects

After learning the theory, you will be given set projects to complete. This is an opportunity for you to put into practice the new knowledge and demonstrate your practical skills in an environment that is supported and fosters excellence. You will be guided by your tutors and with their assistance encouraged to have confidence to complete these projects in a commercially competent time frame.

Unit Standard 26079 Making a Template to Regular, Irregular and Complex Irregular Shapes



You have now started learning how to make a template. Take pics of your work. Use a pic that clearly shows the calibre of your work that can be shown to the tutors and your boss. Use the suggestions on Page 5 to write a few sentences reflecting on how you think you achieved the set tasks. Keep pics on your phone to show your employer supervisor

Did you take notes when the tutor gave you the brief for the project? At the start how confident were you about your skills?

Talk about how you well did with your templating project

Talk about what you could do differently to improve.

On a scale of 1 - 10 (10 being the very best) how would you rate yourself?



Unit Standard 28755 Cutting Glass Using a Template

You have now made your template and have been working on cutting glass to regular and irregular shapes using your own crafted template. On your phone take pics of these shapes clearly showing the quality of your work. Show your boss these pics back at work. Using suggestion on Page 6 write a few sentences reflect on how you think you achieved the tasks.

Mention what you are happy with and what you could do differently to make your work of a better quality. Have your techniques improved? Did you remember to check your own work for quality? How did your optimisation go for yield/ wastage? What about stock requirements and did you remember to leave your space clean and tidy?

Talk about how you well did with cutting for your project

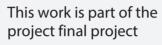
Talk about what you could do differently to improve

On a scale of 1 - 10 (10 being the very best) how would you rate yourself?



US28213 Pricing Materials. How Well Am I Doing?

Use this check list to help you with pricing the items for your final project.





Using the Glass & Glazing Institute of NZ form supplied by your tutorss quote on

• Selected sections of the architectural plans provided by tutors You will need your quote forms, document price lists, and order forms to work out the final price.

Give your total price so that it shows the GST and the final price.

Check your work for:						
Accuracy						
Legibility						
Completeness of detail including:						
Quality and quantity of material required.						
Glasstypes.						
Thickness.						
Weight.						
Dimensions.						
Number of pieces.						
Processes applied for material.						
Fixing Method.						
Photocopy all the documentation you completed or used in the book.						
(Include price list, bill of quantities, order or quote forms.						

Please take the time to provide feedback on your course. It will help us to improve on the training experience for glass and glazing apprentices.

Apprentice Survey

https://www.surveymonkey.com/r/7LKF9BB

Employers Survey

https://www.surveymonkey.com/r/7GZW5LN