

Assessment Guide

Domain	Furniture > Furniture Operations		
Unit	25569 v 3	Demonstrate knowledge of timber types and insect attack in furniture operations	Level 2 Credits 6

Candidate details	
Name	Company
NSI No.	Email / Phone
Assessor details	
Name	Company

Pre-requisite confirmation	
I, the Assessor, can confirm that the candidate holds the pre-requisite(s) for this unit standard.	<input type="checkbox"/> Yes <input type="checkbox"/> Not applicable <input type="checkbox"/> No

Verification details (if required)	
Verifier Name and Company	Email / Phone
I confirm that the candidate's performance meets workplace requirements.	
Signature	Date

Assessment result	
Assessor judgement: <input type="checkbox"/> Achieved <input type="checkbox"/> Not yet achieved	Assessor stamp
Signature	Date

Candidate response	
I, the Candidate: <input type="checkbox"/> Agree with the assessment result. <input type="checkbox"/> Wish to appeal the assessment result	
Signature	Date

Assessment Requirements

This Assessment Guide is designed to help you provide evidence of your skills and knowledge required by this unit standard.

Before you begin

Read through the assessment requirements yourself. Talk with your Assessor if there is anything you don't understand.

Meet with your Assessor to plan your assessment. Your Assessor will:

- » talk you through this Guide, and discuss when and how you will be assessed.
- » check you are ready to begin this assessment.

What you need to do

1. Complete the following assessment tasks:

Questions
Answer questions about different types of timber used in furniture operations; timber seasoning; and insect attack and measures to deal with insect attack.

Note: Your Assessor may choose someone to verify observe your work. This person must have expertise in timber types and insect attack in furniture operations and could be someone you report to, your trainer, or a supervisor or manager who works with you regularly.

2. You may wish to provide additional supporting evidence that proves you have the knowledge and skills required by this unit. Additional evidence may include, for example, workplace documentation you have used and/or completed, training records, photos, screenshots, printouts, videos, voice recordings.
3. When you have completed all assessment tasks, complete the 'Candidate evidence check' at the end of this Guide.
4. When you are sure you have completed and/or attached everything, contact your Assessor or Account Manager to arrange next steps.

Conditions

- » Your evidence must clearly show your knowledge of timber types and insect attack in furniture operations.
- » Complete all assessment tasks yourself. Use your own words when answering questions.
- » This unit standard may be assessed on or off job.
- » It is expected that you will have learned about timber types and insect attack in furniture operations, before you are formally assessed.
- » All tasks you carry out for this assessment must be completed following worksite policies and procedures, and comply with organisational and legislative (legal) requirements.

Definitions

- » *Worksite policies and procedures* refer to documented policies and to documented or other directions provided to staff. These may include, but are not limited to, ways of managing health and safety, environmental considerations, quality, and production, and must conform to legislation. Examples include standard operating procedures, company health and safety plans, on-site briefings, and supervisor's instructions. For the purposes of this unit standard worksite policies and procedures may also refer to the policies and procedures of an off-job training site.

References

The assessment tasks must be completed in accordance with the following reference texts:

- » Evidence requirement 1.1 must be in accordance with the following text: Jackson, A and Day, D., (2005) *Collins Complete Woodworker's Manual*. London, England: HarperCollins, which is available at <http://www.amazon.com>.
- » Evidence requirements 1.2 and 1.3 must be in accordance with the timber species information on the New Zealand Wood Website available at <http://www.nzwood.co.nz/what-wood/timber-species>.
- » Evidence requirements for outcome 2 must be in accordance with AS/NZS 4787:2001 *Timber – Assessment of drying quality*, available from Bennett's Government Bookshops or online at <http://www.standards.co.nz/>.
- » Evidence requirements for outcome 3 must be in accordance with the following reference text: *Common Insects and Fungi that affect Logs and Sawn Timber in New Zealand* (2007) published byASUREQuality Ltd, PO Box 4127, Mt Maunganui South, Tauranga 3149.

Questions

Answer the following questions about timber types and insect attack in furniture operations.

Draw pictures or diagrams to support your answers if you wish.

Your Assessor may ask you additional questions to check your knowledge and understanding.

Your name	
Workplace	
Date	
Answers written by: (Tick one)	<input type="checkbox"/> Candidate <input type="checkbox"/> Assessor <input type="checkbox"/> Other (please write):

Questions 1-5 are about different types of timber used in furniture operations		<input checked="" type="checkbox"/>															
1.	Explain two of the listed characteristics of softwoods and two hardwoods.	<input type="checkbox"/>															
	<table border="1"> <thead> <tr> <th>Characteristic</th> <th>Softwoods</th> <th>Hardwoods</th> </tr> </thead> <tbody> <tr> <td>Colour range</td> <td></td> <td></td> </tr> <tr> <td>Grain pattern</td> <td></td> <td></td> </tr> <tr> <td>Growth rings</td> <td></td> <td></td> </tr> <tr> <td>Speed of growth</td> <td></td> <td></td> </tr> </tbody> </table>	Characteristic	Softwoods	Hardwoods	Colour range			Grain pattern			Growth rings			Speed of growth			
Characteristic	Softwoods	Hardwoods															
Colour range																	
Grain pattern																	
Growth rings																	
Speed of growth																	

2. For each timber classifications provide:



- » A definition
- » Two species of timber.

Timber classification	Definition	Two species of timber
Exotic		Timber species 1: Timber species 2:
Indigenous		Timber species 1: Timber species 2:

3. Which of the following species of timber are used in your worksite:

- | | |
|---------------------------------------|--|
| <input type="checkbox"/> Radiata pine | <input type="checkbox"/> Douglas fir |
| <input type="checkbox"/> Rimu | <input type="checkbox"/> Beech |
| <input type="checkbox"/> Kauri | <input type="checkbox"/> Tawa |
| <input type="checkbox"/> Mataī | <input type="checkbox"/> Eucalyptus |
| <input type="checkbox"/> Mahogany | <input type="checkbox"/> Teak |
| <input type="checkbox"/> Oak | <input type="checkbox"/> Other (please write): |

4. Using two species of timber from your worksite:



- » Classify them correctly
- » Describe their properties.

Species	Classification	Properties
1.		Strength and flexibility:
		Durability:
		Texture:
		Grain:

2.		Strength and flexibility:
		Durability:
		Texture:
		Grain:
5. What are the storage requirements for the 2 timber species used at your worksite?		

For the following questions refer to reference text:

AS/NZS 4787:2001 *Timber – Assessment of drying quality*, available at <http://www.standards.co.nz/>.



Questions 6 - 9 are about timber seasoning.

6. Give three reasons for seasoning or drying timber.



1.

2.

3.

7. Define the following terms relating to timber drying.



Term	Definition
Fibre Saturation Point	
Equilibrium Moisture Content	
Moisture Content	
Green Weight	
Oven Dry Weight	

8. Briefly explain the following two drying processes.

Drying process	Explanation
Air seasoning	
Kiln drying	

9. Explain **two** advantages of kiln drying as opposed to air seasoning

1.

2.

For the following questions refer to reference text:



Common Insects and Fungi that affect Logs and Sawn Timber in New Zealand (2007)
published byASUREQuality Ltd, PO Box 4127, Mt Maunganui South, Tauranga 3149.

Questions 10 - 15 are about insect attacks and measures to deal with insect attacks.

10. For each borer insect, explain



- » What they look like
- » What damage they do to timber.

Borer Insect	Appearance	Damage they cause
Two-Toothed Longhorn		
Pinhole Borer		
Common Household Borer		
Powder Post Beetle		

11. Tick the box next to the picture that indicates insect attack.



12. List **four** pieces of personal protective equipment (PPE) that should be used when using pesticides.

1.

2.

3.

4.

13. Explain a method of pesticide application used in your worksite.

14. When applying pesticide explain what steps you take to prevent contaminating other areas of the worksite.

You have reached the end of the questions.

Candidate evidence check

Required evidence

Use this checklist to make sure you finished the assessment tasks in full.

Clearly name and label all attachments.

I have completed:

- All Questions in this guide

Additional supporting evidence

If you have any other evidence which helps prove your skills and knowledge in this unit (such as completed documents, photos, videos or voice recordings), attach it and record it below.

Clearly name and label all attachments.

I have attached the following as additional supporting evidence:

Assessor final judgement

After reviewing the candidate's evidence for Unit Standard 25569 v 3, it is clear that the candidate can competently:

- Demonstrate knowledge of different types of timber used in furniture operations.
- Demonstrate knowledge of timber seasoning.
- Demonstrate knowledge of insect attack and explain measures to deal with insect attack.

Assessor feedback to the candidate	
Assessor	Date