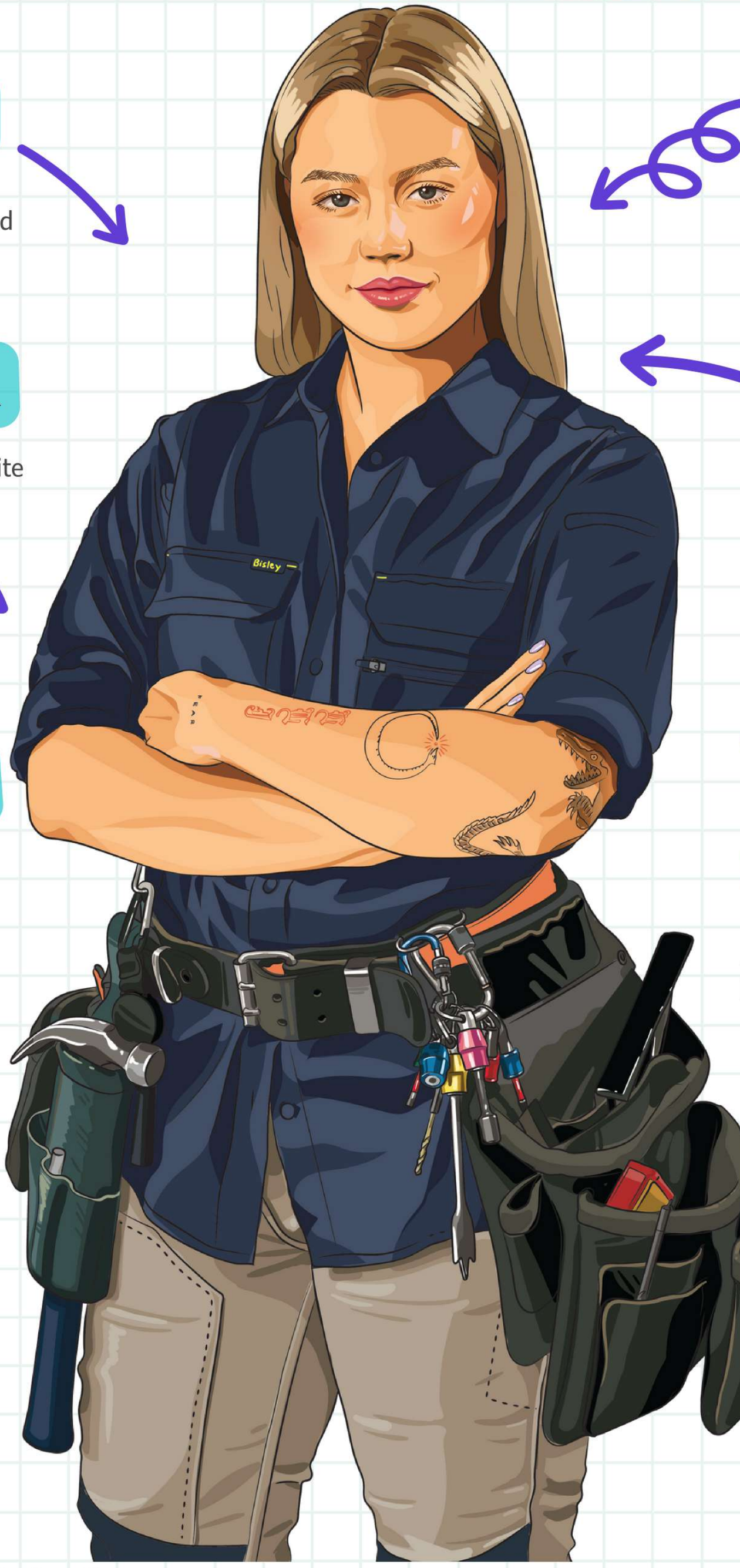
Bardie is

a carpenter



CAN'T

catch a ball or keep her toolbelt organised

LOVES

solving problems and using her hands to bring a vision to life

CAREER

qualified carpenter and site manager

STUDIED

Certificate III in carpentry and joinery at TAFE

EXPERT ON

working with people to bring their dreams, visions and needs into reality.

WANTS TO

create a healthier, safer and better industry for everyone

CAN

tear up the dance floor and solve problems

AT SCHOOL

enjoyed earth and environmental sciences and maths

FUTUREYOU

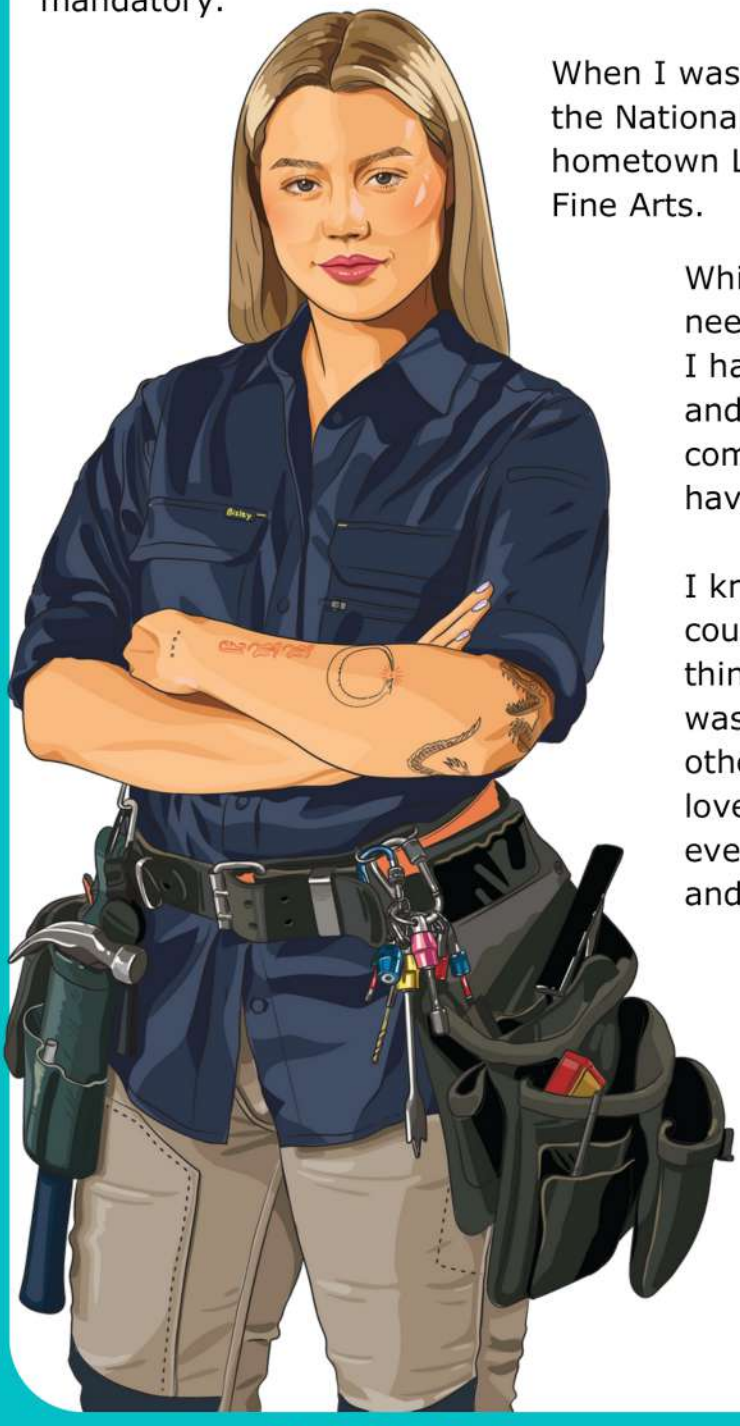
www.futureyouaustralia.com.au/pathfinders/bardie

Meet Bardie Sommerville

What do you do?
I'm a qualified carpenter and site manager.

How did you get into that job?
I did an apprenticeship with TAFE NSW to get my Cert III in carpentry & joinery.

At school I loved Earth and Environmental Science and Maths. I have come to appreciate Maths more and more throughout my career. I'm glad I did it in years 11&12 as it's not mandatory.



When I was 18 and finished my HSC I was accepted into the National Art School in Sydney. So, I moved from my hometown Lismore down to Sydney to study a Bachelor of Fine Arts.

While I was studying (as all uni students do) I needed money so I got a job working in bars… I hated it. My dad who lived in Sydney called me and offered me a job as a labourer for the company he worked for. I thought I may as well have a crack.

I knew nothing about trades. All I had was a country work ethic. I hated it at the start. I don't think I quite understood the industry or men (I was raised by a single mum and just with one other sister). As I came to learn more I began to love it and wanted to know and understand everything I could. I fired off my first nail gun and that was it. I was hooked!

I had the choice to enter my final year of uni or start my apprenticeship. I started my apprenticeship and have never looked back.

What do you love about your job?

- Using my hands to bring a vision to life
- Problem-solving
- Creating incredible projects
- Working with great people

> **Without trades, the world stops moving.**

How does your job help people/the community/the world?
At a basic level my job supplies people with structures. An an advanced level my job allows me to work with families and individuals to bring their dreams, visions and needs into reality. Without trades, the world stops moving.

What are two things you're not good at?
1. Catching a ball
2. Keeping my tool belt organised

What are two things you are good at?
1. Problem solving any issue
2. Creating an enjoyable atmosphere on and off site
3. Tearing up a dance floor (this is a bonus one)

What makes you happy (outside of work)?
Reconnecting with myself and my community, and spending time doing outdoor activities like yoga, swimming at the beach, running and bushwalks.

Where do you want your career to take you?
There are many avenues a trade can take you down and my career has already brought me so far. I want to continue to learn, create beautiful projects and work with incredible materials. But most of all I want my career to continue to help me work with purpose and intent for those in the industry now and in the generation to come. Creating a healthier, safer and better industry as a whole is what I'm passionate about.

Joins art club at school

Finish Year 12

Starts Bachelor of Fine Arts at university

Works part-time in a bar - not fulfilling

Becomes a casual labourer

Enjoys carpentry

Quits university and starts Certificate III in Carpentry at TAFE

Does apprenticeship to earn money while learning

Finish Year 10

Starts school-based apprenticeship program at local trade school

Attends Cert III carpentry courses at TAFE

Part-time work with local construction company

Earning while learning

Completes apprenticeship

Promoted to qualified carpenter at local construction company

Wants more independence - becomes sole trader

Finish Year 12

Bachelor of Engineering

Joins local woodshop as hobby

Finishes degree and gets role as civil engineering graduate

Misses working with hands - enrols in pre-apprenticeship program at TAFE

Starts mature age apprenticeship and Cert III in carpentry at TAFE

Finishes apprenticeship

Gets job as carpenter through TAFE contacts

Carpenter career pathways

Find out more at www.futureyouaustralia.com.au/resources/#other/

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The educational qualifications and levels outlined in these pathways are intended as general guidelines. To obtain accurate and up-to-date information, explore resources specific to your state or territory, available through websites like *myfuture.edu.au*, *YourCareer.gov.au* and *australianapprenticeships.gov.au*.

There is also a range of financial support available for students doing apprenticeships or going to university, visit *www.servicesaustralia.gov.au/education* to see what's available.

- Bachelor of Fine Arts: https://www.courseseeker.edu.au/
- Certificate III in Carpentry and Joinery: https://training.gov.au/training/details/cpc32011
- Carpentry apprenticeship: https://www.aapathways.com.au/industry-specific/carpentry or https://www.yourcareer.gov.au/occupations/3312/carpenter-and-joiner

- School-based apprenticeship: https://www.aapathways.com.au/about/australian-school-based-apprenticeships
- Certificate III in Carpentry and Joinery: https://training.gov.au/training/details/cpc32011
- Starting your own business: https://business.gov.au/guide/starting

- Bachelor of Engineering: https://www.courseseeker.edu.au/
- Graduate role: https://womeninstem-careershub.prosple.com/
- Mature-aged apprenticeship: https://www.aapathways.com.au/about/adult-apprenticeships

SCAN ME

Remember, there are countless pathways to the same career. Each child's unique skills, interests, and strengths will guide them on their personal journey to success.

Capability Convos

Australian Curriculum V9.0 links for Years 3 to 7

English
- Language
- Literacy

General Capabilities:
- Critical and Creative Thinking
- Personal and Social Capability
- Ethical Understanding
- Literacy

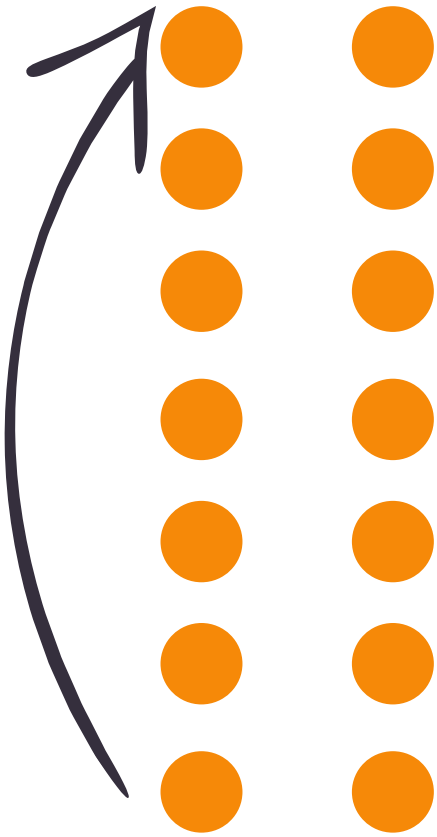
Learning outcomes:

All students will be able to:
- identify some likes, dislikes, strengths, abilities and/or interests when showing a personal preference
- acknowledge that people have different needs, emotions and abilities

In addition, some students will be able to:
- describe the ways they are connected and can contribute to their community groups

Format

- Interactive game with 10 questions
- Easy to play
- Read about Bardie's job and journey with the class
- Print the questions
- Play the game
- Modify or include new questions based on students' needs



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SCAN ME

Instructions for students

Line the class up in two lines facing each other to form pairs. Ask the first question. Once each pair has discussed it, get one line to move one person to their right. The person at the end runs around to the other end of the line. Then you ask the next question and repeat the process until all the questions have been asked.

Bardie
Carpenter

Question 1
What do you think is interesting about Bardie's career?

Question 2
What skills does Bardie have that you also have, and does she have any skills you don't have that you would like to have?

Question 3
Why do you think it's important to find a career that suits your skills and personality?

Question 4
How are your interests and hobbies similar to Bardie's career?

Question 5
How do you think Bardie's career contributes to society?

Question 6
What sort of problems do you think Bardie might have doing this job in a rural or remote location?

Question 7
How much maths do you think Bardie uses in her job? Can you think of five examples of when she would use maths?

Question 8
What tools or technology do you think Bardie would use at work?

Question 9
How important in Bardie's work is teamwork and communication? Think of an example.

Question 10
What do you think would be the biggest challenge in pursuing a career as a carpenter?

Comprehension Questions

Australian Curriculum V9.0 links for Years 3 to 7

English
- Literacy

General Capabilities:
- Literacy

Learning outcomes:

All students will be able to:
- Identify that all people have strengths and weaknesses
- Actively think about what is happening in various texts as they read them
- Apply comprehension strategies to different media formats

In addition, some students will be able to:
- Identify different reasons for doing different jobs

Instructions:

- Format/print the students' question sheets (or load them onto school LMS) and direct students to a copy.
- Read the questions as a class to start, discussing any meanings
- Discuss with the class strategies for being able to answer the questions as they read about Bardie
- Read Bardie's questionnaire and 'Day in the Life' as a class, encouraging students to answer questions as you go

Adaptation note: Questions can be modified on the PDF to meet students' needs or learning focus areas in your classroom

Comprehension questions

1. Name three things Bardie is good at.
2. And two things Bardie CAN'T do.
3. What qualifications does Bardie have?
4. What four things does Bardie love about her job?
5. What work did Bardie do when she first started her university degree?
6. What made Bardie switch from a Fine Arts degree to an apprenticeship?
7. How does Bardie's job help people at an advanced level?
8. What is Bardie passionate about for her future?

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Answers:
1. Solving problems, creating an enjoyable atmosphere on the worksite, and tearing up the dance floor.
2. Catch a ball and keep her tool belt organised.
3. Certificate III in Carpentry and Joinery
4. Using my hands to bring a vision to life, problem-solving, creating incredible projects and working with great people
5. Worked in bars
6. She worked as a labourer and really enjoyed it so much that she changed.
7. Bring their dreams, visions and needs into reality.
8. Creating a healthier, safer and better industry

Carpenter

Student name:

Comprehension Questions

Name three things Bardie is good at.

1.

2.

3.

What work did Bardie do when she first started her university degree?

What made Bardie switch from a Fine Arts degree to an apprenticeship?

Name TWO things Bardie can't do.

1.

2.

How does Bardie's job help people at an advanced level?

What qualifications does Bardie have?

What four things does Bardie love about her job?

1.

2.

3.

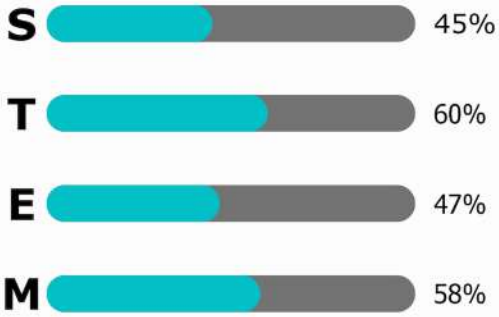
4.

What is Bardie passionate about for her future?

Carpenter/ Site Manager

STEM Meter

How much Science, Technology, Engineering and Mathematics (STEM) does this job use?



Source: jobsandskills.gov.au

Bardie is a qualified carpenter and site manager who loves problem-solving and working with her hands. After becoming a labourer while studying for a Bachelor of Fine Arts, Bardie discovered a flair for carpentry and decided to pursue an apprenticeship. Find out more:

futureyouaustralia.com.au/pathfinders/bardie

'I want my career to continue to help me work with purpose and intent for those in the industry now, and in the generation to come.'

Job stats and facts

Future job growth: Over the next five years jobs in this industry are expected to remain stable.

Location: 37% of carpenters live outside capital cities.

Employment pathways: A certificate III in a relevant carpentry field.

3 STEM skills required for this job	Subjects to develop these skills	3 other jobs that value this skill
Critical thinking	Science, Mathematics, Digital Technology	Data Analyst, Clinical Psychologist, Software Developer
Mathematics	Mathematics	Actuary, Data Scientist, Commodities Trader
Problem solving	Design and Technologies, Digital Technology	Teacher, Engineer, Marketing Manager

Other careers related to this line of work

People

Interior Designer
Home Inspector
Home Accessibility Specialist
Residential Project Manager
Community Outreach Carpenter

Education

Carpentry Instructor
Trade School Instructor
Environmental Educator
Mentor

Carpentry

Timber Framer
Carpentry Safety Consultant
Disaster Relief Carpenter
Custom Woodworker
Home Renovation Carpenter

Nature

Arborist
Park Ranger
Conservation Coordinator
Wetland Restoration Carpenter
Wildlife Habitat Restoration Specialist

Sustainability

Conservation Carpenter
Tiny Home Builder
Sustainable Woodworker
Geodesic Dome Builder
Nature-Based Playground Designer

The world is changing rapidly, and this means the career possibilities available to our kids are wide-ranging and exciting (and probably, don't exist yet!).

From traditional vocations to emerging fields, there are countless pathways to be explored.

Parents and teachers can create environments that encourage kids to discover and investigate possible careers that match their skills and interests.

We've included some links to other valuable resources that can help guide career conversations and explorations. Find out more at:

www.futureyouaustralia.com.au/resources/other

Qualified Carpenter

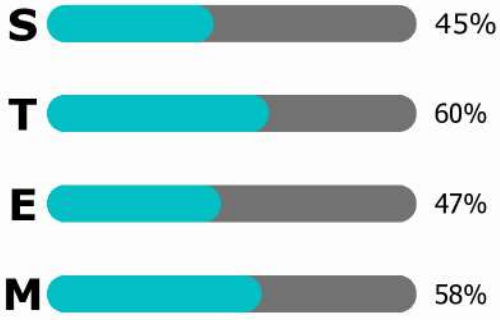
Bardie is a qualified carpenter and site manager who loves problem-solving and working with her hands. After becoming a labourer while studying for a Bachelor of Fine Arts, Bardie discovered a flair for carpentry and decided to pursue an apprenticeship. Find out more:

futureyouaustralia.com.au/pathfinders/bardie

'I want my career to continue to help me work with purpose and intent for those in the industry now, and in the generation to come.'

STEM Meter

How much Science, Technology, Engineering and Mathematics (STEM) does this job use?



Source: jobsandskills.gov.au

5 reasons why you should do this job

1. You get to build really cool stuff
2. Work with all sorts of tools and gadgets
3. Solve puzzles
4. You get to work outside
5. Help others

3 STEM skills required for this job	Subjects to develop these skills
Critical thinking	Science, Mathematics, Digital Technology
Mathematics	Mathematics
Problem solving	Design and Technologies, Digital Technology

An example of a day in the life of a carpenter

5.00am I greet the morning sun with a sense of purpose, a habit formed from my years as a carpenter. Before I start my day I make a strong cup of coffee and check the weather forecast knowing that even a hint of rain could disrupt our progress at the build site.

5.15am Time for breakfast before I get dressed in my work pants and work shirt – these are long to protect me from splinters and the sun. I grab my steel-capped work boots so my toes are protected if I drop something heavy, and my toolbelt. I LOVE my toolbelt. It carries all my essentials, such as my hammer, tape measure, pencils and more.

5.45am With another coffee in my hand I set off for the build site where I'm part of an exciting project: constructing environmentally friendly duplexes. It's a job that goes beyond carpentry. It's about helping people build their homes in a sustainable way.

6.30am The day begins with the whole team reviewing our project plan and consulting the architectural blueprints. Here, STEM skills come into play. We calculate load-bearing capacities, analyse structural integrity and ensure that the eco-friendly materials we use are both durable and energy-efficient. Carpentry, in this context, is a blend of art and science.

10.00am As the morning progresses, I'm in my element. Once I grab my safety goggles, dust mask and knee pads I get to work measuring, cutting, and assembling wood with precision. Each piece I work on is a contribution to these sustainable homes so I ask some of the more experienced carpenters to check my work. They're always happy to lend a hand and offer some guidance.

Midday Tools down on the site and we all take a break. Lunch is fun on the work site. We all get to have a laugh and recharge. I enjoy some leftovers from last night. It's important I eat food that gives me enough energy for the afternoon ahead.

1.00pm It's time to focus on the fine details that make these duplexes environmentally friendly. I support the team with the installation of the energy-efficient windows and use this opportunity to learn more about sustainable materials all while maintaining a keen eye for precision and quality.

3.00pm I help clean up the build site and secure the tools. Safety and organisation are important in construction to minimise waste and maximise efficiency.

5.00pm Time to switch gears. I head to the gym for a workout because being fit is important in my job. A workout routine keeps me fit and also sharpens my problem-solving skills which I apply at work.

6.30pm I meet up with friends for dinner. We share stories, laughter, and I talk about all the incredible things I have been learning about sustainable living. My friends are all ears – the environment is really important to all of us.

8.00pm I get home and do some sketching of design ideas for future sustainable projects. I apply all the knowledge I learnt today at work to help me design innovative and eco-friendly housing solutions. One day I want to have my own business, building sustainable, beautiful homes.

9.00pm I collapse into bed. My body and my mind are both happy, but exhausted and they need some serious rest.

Pathfinder Workwords

Carpenter

M L G W Z N Q O R R D S W R D U S F J N N N W
L E E N L G O U Z W D R I L L A U E O Q O O G
W W A V I Y T I M H X Q L A N N B I R F I I R
B C D S E V N Q S K Q G E D G W T Y U S T T E
Q Z N Y U L L E U I T S I I E A B P L C A A F
M E L B O R P O X N C N S Z C B A I E Y L V V
Z R L Z P S E V S V G E X I R U A G R Z U O P
T E X S J K V M P Q D G R V E N B E J E C N Z
S M M Z V V Q R E Z W B E P U W G O J V L N B
E M L E S I H C P N A S T L O W I M S X A I D
C A S A F E T Y I F T F P T L N F E S C C E O
R H P G L H C S M H S B M M E L F T V D A C R
V R W X K G V V D A C T Q R A O I R Z C T L K
C S N D R I W S R O M I Y A Y L P Y Y C H B E
H H A A R J C U L H O L L F N F C F Q M G Q B
U I P L A N N I N G N T F X R H T H J D S W C

Find 20 words Bardie needs to do her job.

1. PRECISION
2. HAMMER
3. NAILS
4. DRILL
5. MEASUREMENT
6. GEOMETRY
7. SANDING
8. CHISEL
9. CLAMPS
10. CALCULATION
11. DESIGN
12. PLANNING
13. LEVEL
14. RULER
15. JOINERY
16. PROBLEM-SOLVING
17. INNOVATION
18. FABRICATION
19. SAFETY
20. SCALE

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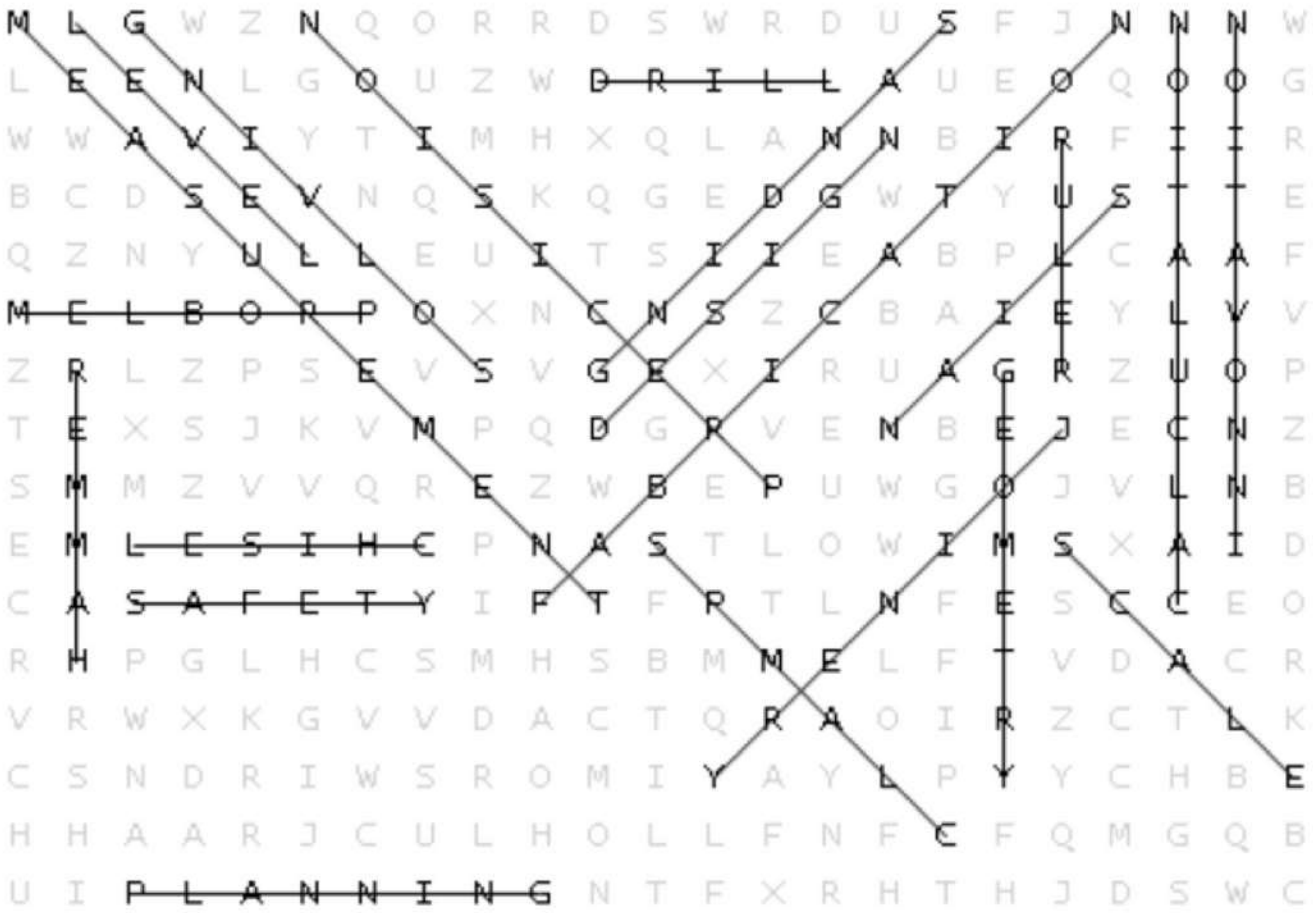
Pathfinder Workwords

Answers



Let's reflect

Were any of these words new to you? Look them up and find out what they mean.

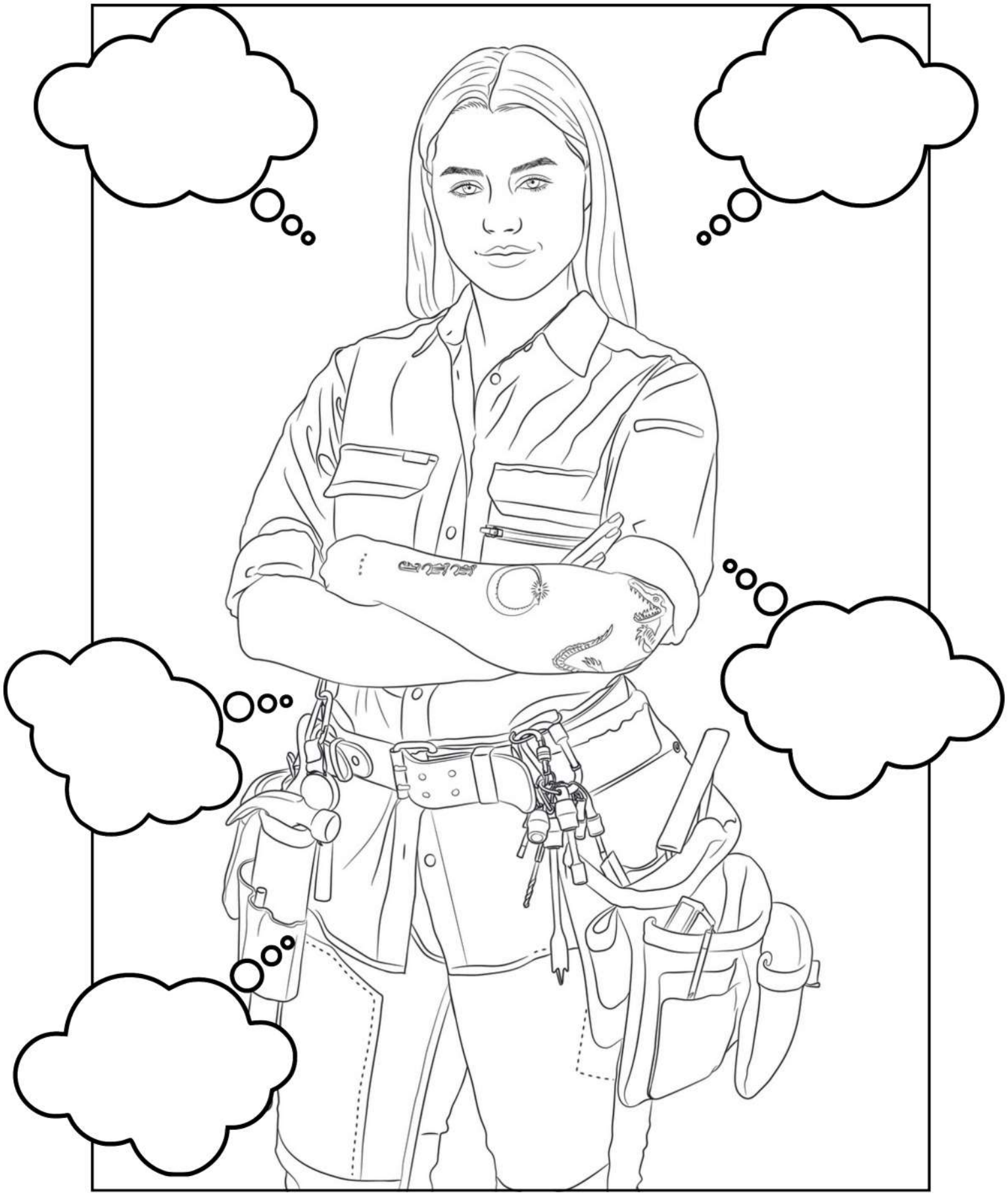
Which of these skills do you think you are best at, or would like to get better at?

1._____

2._____

3._____

Can you think of anything else Bardie might need to do her job?

_____

Meet Bardie. She's a carpenter who loves bringing people's visions to life. Fill in the bubbles with 5 STEM (Science, Technology, Engineering and Mathematics) skills she uses in her job. Which of these skills do you think is most important? Which do you think would be the hardest to develop? When you've thought of the skills, colour in the rest of the image.