

# Modern Carpentry Answers Unit 17

**WORKBOOK · ANSWER KEY**

**UNIT 2**

**2.1**

1  
2 do 3 go 4 play 5 take 6 eat 7 drink  
8 listen 9 watch 10 read

**2A**

1 sport, golf, film 2 photo, coffee, nothing  
3 TV 4 cinema, exercise 5 magazine,  
DVD 6 MP3 player

**3**

2 Do you do a lot of sport, Kiko?  
Yes, I do.

3 Do the students in your class like  
near you?  
No, they don't.

4 Do you and Clara like Italian food?  
Yes, we do.

5 Do you listen to Radio 5, Daniel?  
Yes, I do.

6 Do Ursula and Hans study English  
with you?  
No, they don't.

7 Do I have classes on Saturday?  
No, you don't.

8 Do you and your family eat together?  
Yes, we do.

9 Do Ali and Mirco play tennis?  
Yes, they do.

10 Do you and Ana drink coffee?  
No, we don't.

**4B**

Office yoga: 4  
Salsa for beginners: 3  
Digital photography: 2  
Singing for fun: 1

**C**

Office Yoga: Monday and Wednesday;  
home (Union County);  
stretching and relaxing  
exercises

Salsa for  
Beginners: Tuesday and Thursday;  
dance club practise salsa  
dancing (and they go  
to dance clubs at the  
weekend)

Digital  
Photography: Saturday; high school;  
study how to take a good  
photo

Singing for  
Fun: Monday and Thursday;  
music school; sing old  
songs, new songs (and the  
teachers play the guitar)

**D**

2 Do you like music?  
3 ✓

4 Where do you work?  
5 Do you sit at your desk a lot?  
6 What do you do in an Office Yoga  
class?

**E**

b) 5 c) 1 d) 6 e) 4 f) 2

**5**

2 don't watch / listen to 3 don't eat  
4 drink 5 read 6 don't go 7 don't do  
8 play

**2.2**

**1A**

2 have lunch 3 go to bed 4 get home  
5 have dinner 6 get up 7 start work  
8 leave home 9 finish work

**B**

b) 1 c) 8 d) 7 e) 2 f) 9 g) 4 h) 5 i) 3

**2**

2 On Tuesday, I phone my mother and I  
chat with her for hours.

3 On Wednesday, I get up early, but I  
don't go to work – it's my free day.

4 On Thursday, I work in the office or I  
work at home.

5 On Friday, I go out late with my  
friends or I go to bed early.

6 On Saturday, I play tennis with Pete at  
9 and I have lunch with him.

7 On Sunday morning, I read a  
newspaper but it isn't in English!

8 On Sunday afternoon, I listen to music  
or I watch TV.

**3A**

2 plays 3 drinks 4 drives 5 relaxes  
6 eats 7 studies 8 knows 9 wishes  
10 leaves 11 gets 12 practises

**B**

1 drinks, eats, gets  
2 drives, studies, knows, leaves  
3 washes, practises

**4**

2 makes 3 doesn't drive 4 takes  
5 starts 6 has 7 doesn't stop 8 sees  
9 finishes 10 doesn't sleep 11 reads  
12 gets 13 has 14 goes

**5A**

1 Yes, he does. 2 No, he doesn't.

**B**

2 F 3 F 4 T 5 F 6 T 7 T 8 F

**C**

2 People talk to Ali.  
3 People are very hungry at night.

5 Ali loves hot dogs.  
6 Ali goes to the park with his boys.

**6**

2 Does James drink coffee?  
3 What does 'junk' mean?  
4 When does he have lunch?  
5 Does she like popcorn?  
6 Which newspaper does Kay read?  
7 How does Faisal come to work?  
8 Where does your car come from?

**7**

1 shop assistant  
2 police officer  
3 politician  
4 waiter  
5 businessman  
6 receptionist  
7 doctor  
8 sportsman  
9 actor  
Hidden job: hairdresser

**2.3**

**1**

2 It's quarter past nine / It's nine fifteen.  
3 It's ten past eleven / It's eleven ten.  
4 It's quarter to three / It's two forty-five.  
5 It's twenty past five / It's five twenty.  
6 It's twenty-five to nine / It's eight  
thirty-five.  
7 It's five to eleven / It's ten fifty-five.  
8 It's twenty to two / It's one forty.

**2B**

2 When does the train arrive?  
3 What time does the tour start?  
4 When does the tour finish?  
5 Where does the tour start from?  
6 How much does the tour cost?  
7 What time does the bank open?  
8 When does the bank close?

**C**

1 What time does the train leave?  
2 When does the train arrive?  
3 What time does the tour start?  
4 When does the tour finish?  
5 Where does the tour start from?  
6 How much does the tour cost?  
7 What time does the bank open?  
8 When does the bank close?

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**Modern carpentry answers unit 17** is a vital component of the carpentry curriculum, focusing on contemporary practices and techniques essential for both new and experienced carpenters. This unit covers various aspects of modern carpentry, including materials, tools, and methods that are applicable in today's fast-paced construction environment. With an increasing emphasis on efficiency, sustainability, and precision, understanding the principles outlined in this unit can significantly enhance a carpenter's skill set.

## Understanding Modern Carpentry

Modern carpentry is not just about working with wood; it encompasses a wide range of skills, tools, and techniques that adapt to the changing demands of the construction industry. The following sections will delve into the core concepts of unit 17, highlighting key components that every carpenter should know.

## **The Evolution of Carpentry**

Carpentry has evolved significantly over the years, influenced by technological advancements and changes in building practices. Modern carpentry is characterized by:

1. **Innovative Materials:** The introduction of engineered wood products, composites, and sustainable materials has transformed how carpenters approach their projects.
2. **Advanced Tools:** Modern tools, including laser levels, powered saws, and digital measuring instruments, have improved accuracy and efficiency on the job site.
3. **Sustainable Practices:** There is a growing focus on environmentally friendly practices, including sourcing sustainable materials and minimizing waste.

## **Key Topics in Unit 17**

Unit 17 covers several essential topics that carpenters must be familiar with to succeed in today's market:

- **Material Selection:** Understanding the properties and applications of different materials, including hardwoods, softwoods, and engineered materials.
- **Construction Techniques:** Familiarity with modern framing methods, including platform framing, timber framing, and modular construction.
- **Safety Practices:** Emphasizing the importance of safety protocols and the proper use of personal protective equipment (PPE).
- **Building Codes and Regulations:** Knowledge of local building codes and how they apply to various carpentry projects.

## **Material Selection in Modern Carpentry**

One of the crucial aspects of modern carpentry is the selection of the right materials. The choice of material can affect the durability, aesthetics, and sustainability of a project.

# Types of Wood Used in Carpentry

Carpenters typically work with various types of wood, each with its unique properties. Here are some commonly used woods in modern carpentry:

- **Hardwoods:** Such as oak, maple, and cherry, are known for their strength and durability. They are often used in furniture and cabinetry.
- **Softwoods:** Pine, cedar, and fir are lighter and more cost-effective options, suitable for framing and construction.
- **Engineered Wood:** Products like plywood, MDF, and OSB are popular for their versatility and stability. They are often used in flooring, cabinetry, and structural applications.

## Choosing Sustainable Materials

Sustainability is a key focus in modern carpentry, with many carpenters opting for eco-friendly materials. Consider the following when selecting sustainable options:

1. **Reclaimed Wood:** Using salvaged materials reduces waste and adds character to projects.
2. **Certified Woods:** Look for materials certified by organizations like the Forest Stewardship Council (FSC), ensuring responsible sourcing.
3. **Composite Materials:** Explore options like bamboo or recycled plastics, which can offer durability and sustainability.

## Modern Construction Techniques

Understanding contemporary construction techniques is essential for any carpenter. These methods not only enhance efficiency but also improve the overall quality of work.

### Framing Techniques

Framing is the backbone of any construction project. Modern carpenters should be familiar with the following techniques:

- **Platform Framing:** The most common method in residential construction, where each floor is framed separately, allowing for easier construction and modifications.
- **Timber Framing:** This traditional method uses large wooden beams and is often employed in custom homes and high-end projects.
- **Modular Construction:** Involves building sections of a structure off-site, then assembling them on location, greatly reducing construction time.

## Advanced Joinery Techniques

Joinery is another critical skill for carpenters. Some modern joinery techniques include:

- Pocket Hole Joinery: A fast and strong method using angled holes to join pieces of wood.
- Dowel Joinery: Involves inserting wooden dowels into aligned holes, providing a strong bond.
- Mortise and Tenon: A traditional technique that remains popular for its strength and aesthetic appeal, especially in furniture making.

## Safety Practices in Modern Carpentry

Safety is paramount in any construction environment. Unit 17 emphasizes the importance of adhering to safety protocols to minimize risks on the job site.

### Essential Safety Gear

Carpenters should always wear the appropriate personal protective equipment (PPE), including:

- Safety Glasses: To protect the eyes from debris and dust.
- Hearing Protection: Essential when using loud power tools.
- Dust Masks or Respirators: To prevent inhalation of harmful particles.
- Hard Hats: Necessary in environments where overhead hazards exist.

### Safety Procedures and Best Practices

Implementing safety procedures can greatly reduce the likelihood of accidents. Key practices include:

1. Regular Tool Maintenance: Ensuring tools are in good working order to prevent malfunctions.
2. Work Area Organization: Keeping the workspace tidy to minimize trip hazards.
3. Proper Lifting Techniques: Training in how to lift heavy objects safely to prevent injuries.

## Building Codes and Regulations

Knowledge of local building codes is essential for compliance and safety in

carpentry projects.

## Understanding Building Codes

Building codes are regulations that govern the construction of buildings and structures. Carpenters should be aware of:

- Local Codes: These can vary significantly by region and may dictate specific materials and construction methods.
- Safety Standards: Ensuring compliance with safety regulations to protect workers and end-users.

## Staying Informed

Carpenters must stay updated on changes to building codes and regulations through:

- Continuing Education: Participating in workshops and training sessions.
- Industry Publications: Subscribing to journals and magazines focused on carpentry and construction.

## Conclusion

**Modern carpentry answers unit 17** provides essential knowledge and skills that are crucial for any carpenter in today's fast-evolving construction landscape. By understanding material selection, advanced construction techniques, safety practices, and building codes, carpenters can enhance their efficiency, craftsmanship, and overall success in the industry. Committing to ongoing education and staying abreast of industry trends will further ensure a carpenter's relevance and competitiveness in the field.

## Frequently Asked Questions

### What are the key principles of modern carpentry covered in Unit 17?

Unit 17 focuses on advanced joinery techniques, sustainable materials, and the integration of technology in carpentry practices.

### How does Unit 17 address safety protocols in

## **carpentry?**

Unit 17 emphasizes the importance of personal protective equipment (PPE), proper tool handling, and workspace organization to ensure safety on site.

## **What types of materials are discussed in Unit 17 for modern carpentry projects?**

The unit discusses engineered wood products, reclaimed materials, and environmentally friendly alternatives to traditional lumber.

## **Are there any specific tools highlighted in Unit 17 for modern carpentry?**

Yes, Unit 17 highlights the use of CNC machines, laser cutters, and advanced measuring tools to enhance precision and efficiency in carpentry.

## **How does Unit 17 incorporate design principles into carpentry practices?**

The unit integrates design thinking by encouraging carpenters to consider aesthetics, functionality, and sustainability in their projects.

## **What skills are essential for carpenters according to Unit 17?**

Essential skills include proficiency in hand and power tools, understanding building codes, and the ability to read and interpret blueprints and plans.

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