

PACT Core Green Certification

Exam Objectives:

Safety:

SAFE WORKING PRACTICES

1. Describe and practice safe use of hand and power tools.
2. Distinguish between safe and unsafe installation practices.
3. Inspect work area to ensure a safe working environment.
4. Identify hazardous conditions associated with tools and equipment.
5. Identify hazardous conditions associated with work areas.
6. Identify hazardous conditions associated with chemicals/supplies.
7. Select and wear proper safety attire on the job site including personal protective equipment [PPE] (safety glasses, safety footwear, hearing protection, hard hats, etc.).
8. Accept the responsibility of the personal safety of other workers.
9. Demonstrate the ability to report all injuries immediately to the instructor.
10. Demonstrate personal safety rules/OSHA regulations.
11. Demonstrate shop safety rules/OSHA regulations.
13. Locate and operate fire safety equipment.
14. Demonstrate safe use of ladders and scaffolding.
15. Demonstrate safe fall protection procedures and equipment use.
16. Demonstrate the ability to properly lift and carry construction materials.

BASIC FIRST AID

17. Identify locations of all first aid equipment and materials.
18. Demonstrate basic first aid practices.

Construction Math:

BASIC CONSTRUCTION MATH

1. Read a rule to the nearest 16th of an inch
2. Calculate whole numbers using addition, subtraction, multiplication, and division.
3. Calculate fractions using addition, subtraction, multiplication, and division.
4. Calculate decimals using addition, subtraction, multiplication, and division.
5. Add, subtract, multiply, and divide measurements using measuring tools.
6. Calculate square foot and lineal foot measurements.
7. Apply specific formulas for estimating materials.
8. Calculate ranges, ratios, and indexes such as a HERS Energy Index.

PRINT READING

9. Read and interpret basic construction prints.
10. Identify basic architectural symbols and abbreviations.
11. Demonstrate proper use of tools used to determine square.
12. Demonstrate proper use of tools used to determine plumb.
13. Demonstrate proper use of tools used to determine level.

Tools & Construction Materials:

HAND TOOLS

1. Demonstrate the proper use, care, and maintenance of hand tools.
2. Describe safety rules for each hand tool.
3. Demonstrate the proper use, care, and maintenance of ladders and scaffolding.

4. Identify/select appropriate hand tools for specific tasks in carpentry.
5. Identify/select appropriate hand tools for specific tasks in electrical.
6. Identify/select appropriate hand tools for specific tasks in plumbing.
7. Identify/select appropriate hand tools for specific tasks in brick masonry.
8. Identify/select appropriate hand tools for specific tasks in landscaping.
9. Identify/select appropriate hand tools for specific tasks in Building Construction Technology.
10. Identify/select appropriate hand tools for specific tasks in painting and finishing.

POWER TOOLS

11. Demonstrate the proper use, care, and maintenance of power tools / equipment.
12. Describe safety rules for each power tool.
13. Identify/select appropriate power tools for specific tasks in carpentry.
14. Identify/select appropriate power tools for specific tasks in electrical.
15. Identify/select appropriate power tools for specific tasks in plumbing.
16. Identify/select appropriate power tools for specific tasks in brick masonry.
17. Identify/select appropriate power tools for specific tasks in landscaping.
18. Identify/select appropriate power tools for specific tasks in Building Construction Technology.
20. Demonstrate the proper use, storage, and handling of materials, chemicals, and compounds used in various trade areas.

CONSTRUCTION MATERIALS

20. Demonstrate the proper use, storage, and handling of materials, chemicals, and compounds used in various trade areas.
21. Identify/select appropriate construction equipment and materials for specific tasks in carpentry.
22. Identify/select appropriate construction equipment and materials for specific tasks in electrical.
23. Identify/select appropriate construction equipment and materials for specific tasks in plumbing.
24. Identify/select appropriate construction equipment and materials for specific tasks in brick masonry.
25. Identify/select appropriate construction equipment and materials for specific tasks in landscaping.
26. Identify/select appropriate construction equipment and materials for specific tasks in Building Construction Technology.
27. Identify/select appropriate construction equipment and materials for specific tasks in painting and finishing.

MEASURING AND CALCULATING

28. Demonstrate proper use of measurement tools.

Career Wiz (Employability):

PREPARING FOR THE WORKFORCE

1. Obtain documentation for employment.
2. Obtain government-issued driver's license.
3. Identify and describe industry-related job qualifications.
4. Use media, Internet, and other resources to contact employers for job opportunities.
5. Practice and successfully complete a job application.
6. Create a résumé.
7. Practice and interview for a job.
8. Follow up with employers about interview and job.

PROFESSIONALISM IN THE WORKPLACE

9. Demonstrate compliance with a drug-free workplace.
10. Respond appropriately to supervision.
11. Follow written and verbal directions.
12. Complete assigned tasks.
13. Work safely.
14. Dress appropriately for work.
15. Arrive for work on time.
16. Shows respect for tools, materials and other's property.
17. Work as a team member with diverse races, sexes, ages, and cultures, treating all with respect.

Green Building

ENVIRONMENTAL LITERACY

1. Identify primary natural resources
2. Describe resource consumption and waste in construction
3. Identify causes of environmental change and the role of construction

GREEN BUILDING CONCEPTS

1. Understand site design impacts on energy efficiency
2. Identify sources of construction materials and waste reduction strategies
3. Describe the life cycle phases of a building and environmental impact

GREEN BUILDING BASIC SKILLS

1. Identify hazardous conditions in green building practices
2. Apply ratios and measurements for efficient material use
3. Demonstrate environmentally friendly cleaning and maintenance of tools

GREEN BUILDING TRADE SKILLS

1. Demonstrate proper insulation installation
2. Identify energy-efficient windows, doors, and trim
3. Recognize renewable energy sources in home construction