NCCER



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CORE CURRICULUM: Introductory Craft Skills

Competencies / Objectives

MODULE 00101-09 - BASIC SAFETY

- 1. Explain the idea of a safety culture and its importance in the construction crafts.
- 2 Identify causes of accidents and the impact of accident costs.
- 3. Explain the role of OSHA in job-site safety.
- 4. Explain OSHA's General Duty Clause and 1926 CFR Subpart C.
- 5. Recognize hazard recognition and risk assessment techniques.
- 6. Explain fall protection, ladder, stair, and scaffold procedures and requirements.
- 7. Identify struck-by hazards and demonstrate safe working procedures and requirements.
- 8. Identify caught-in-between hazards and demonstrate safe working procedures and requirements.
- 9. Define safe work procedures to use around electrical hazards.
- 10. Demonstrate the use and care of appropriate personal protective equipment (PPE).
- 11. Explain the importance of hazard communications (HazCom) and Material Safety Data Sheets (MSDSs).
- 12. Identify other construction hazards on your job site, including hazardous material exposures, environmental elements, welding and cutting hazards, confined spaces, and fires.

MODULE 00102-09 – INTRODUCTION TO CONSTRUCTION MATH

- 1. Add, subtract, multiply, and divide whole numbers, with and without a calculator.
- 2. Use a standard ruler, a metric ruler, and a measuring tape to measure.
- 3. Add, subtract, multiply, and divide fractions.
- 4. Add, subtract, multiply, and divide decimals, with and without a calculator.
- 5. Convert decimals to percentages and percentages to decimals.
- 6. Convert fractions to decimals and decimals to fractions.
- 7. Explain what the metric system is and how it is important in the construction trade.
- 8. Recognize and use metric units of length, weight, volume, and temperature.
- 9. Recognize some of the basic shapes used in the construction industry and apply basic geometry to measure them.

MODULE 00103-09 - INTRODUCTION TO HAND TOOLS

- 1. Recognize and identify some of the basic hand tools and their proper uses in the construction trade.
- 2. Visually inspect hand tools to determine if they are safe to use.
- 3. Safely use hand tools.

MODULE 00104-09 – INTRODUCTION TO POWER TOOLS

- 1. Identify power tools commonly used in the construction trades.
- 2. Use power tools safely.
- 3. Explain how to maintain power tools properly.

MODULE 00105-09 - INTRODUCTION TO CONSTRUCTION DRAWINGS

- 1. Recognize and identify basic construction drawing terms, components, and symbols.
- 2. Relate information on construction drawings to actual locations on the print.
- 3. Recognize different classifications of construction drawings.
- 4. Interpret and use drawing dimensions.

MODULE 00106-09 - BASIC RIGGING

- 1. Identify and describe the use of slings and common rigging hardware.
- 2. Describe basic inspection techniques and rejection criteria used for slings and hardware.
- 3. Describe basic hitch configurations and their proper connections.
- 4. Describe basic load-handling safety practices.
- 5. Demonstrate proper use of American National Standards Institute (ANSI) hand signals.

MODULE 00107-09 – BASIC COMMUNICATION SKILLS

- 1. Interpret information and instructions presented in both verbal and written form.
- 2. Communicate effectively in on-the-job situations using verbal and written skills.
- 3. Communicate effectively on the job using electronic communication devices.

MODULE 00108-09 - BASIC EMPLOYABILITY SKILLS

- 1. Explain the role of an employee in the construction industry.
- 2. Demonstrate critical thinking skills and the ability to solve problems using those skills.
- 3. Demonstrate knowledge of computer systems and explain common uses for computers in the construction industry.
- 4. Define effective relationship skills.
- 5. Recognize workplace issues such as sexual harassment, stress, and substance abuse.

MODULE 00109-09 - INTRODUCTION TO MATERIALS HANDLING

- 1. Define a load.
- 2. Establish a pre-task plan prior to moving a load.
- 3. Use proper materials-handling techniques.
- 4. Choose appropriate materials-handling equipment for the task.
- 5. Recognize hazards and follow safety procedures required for materials handling.