

NCCER Core Introductory Craft Skills

Program Description:

This 5 week – 80 clock hour course, provides individuals with an overview to various fields of basic safety, introduction to construction math, hand tools, power tools, construction drawings, basic rigging, basic communication skills, basic employability skill and material handling. Students will develop knowledge of the skills related to the Core curriculum and how it applies to work in the industrial trades. This course supports the integration of academic knowledge and technical skills. Students will learn, apply and transfer knowledge to various employment settings at an industrial site while integrating problem-solving skills. Knowledge about career opportunities, requirements and expectations plus the development of workplace skills will prepare the students for future success. Students completing the individual modules will be placed on the national registry and receive an NCCER Core Curriculum Certification. NCCER is the National Center for Construction Education and Research who is the accrediting training sponsor and issues credentialing in the individual construction industry-based modules.

Upon successful completion of each module, their credentials are entered into the NCCER National Registry System. These credentials are lifetime credentials that will follow the craftsman throughout his lifetime. The national registry deems the graduate “NCCER Core Certified”. Job opportunities for our graduates exist in residential, commercial and industrial work settings.

Admission Requirements:

Individuals applying for this course of study are required to:

- Be at least 18 years of age. Age will be verified with individual’s ID, if no ID is available then a birth certificate will be required.; and
- Present proof of secondary education (High School Diploma or General Equivalency Diploma)

Method of Delivery: Residential

Program Outline

Module #	Subject Title	Contact Hours			
		Lec	Lab	Ext	Total
MOD 00101-15	Basic Safety (Construction Site Safety Orientation)	2.5	10	0	12.5
MOD 00102-15	Introduction to Construction Math	2.5	7.5	0	10
MOD 00103-15	Introduction to Hand Tools	2.5	7.5	0	10
MOD 00104-15	Introduction to Power Tools	2.5	7.5	0	10
MOD 00105-15	Introduction to Construction Drawings	2.5	7.5	0	10
MOD 00106-15	Introduction to Basic Rigging	2.5	5.0	0	7.5
MOD 00107-15	Basic Communication Skills	2.5	5.0	0	7.5
MOD 00108-15	Basic Employability Skills	2.5	5.0	0	7.5
MOD 00109-15	Introduction to Material Handling	2.5	2.5	0	5.0
Total Clock Hours		22.5	57.5	0	80.0

NCCER CORE –Introductory Craft Skills

MOD 00101-15 Basic Safety (Construction Site Safety Orientation)

2.5 LEC/10 LAB/00 EXT/12.5 TL

Upon completion of this course, students will understand the importance of safety in the construction and industrial crafts. Students will be able to follow safe work practices and procedures on how to properly inspect and use safety equipment. Students will be able to describe the safety practices associated with elevated work; energy release; and various hazards encountered on job sites. [Prerequisite: None]

MOD 00102-15 Introduction to Construction Math

2.5 LEC/10 LAB/00 EXT/12.5 TL

Upon completion of this course, students gain the understanding of the basic math skills related to construction trades and will be able to demonstrate how they apply to the construction trades. Basic math skills introduced will be whole numbers and fractions; working with decimals; the four primary math operations; reading rulers and tape measures; the imperial and metric units of measurements; basic the geometric figures; area and volume calculations for two-dimensional objects. [Prerequisite: MOD 00101-15]

MOD 00103-15 Introduction to Hand Tools

2.5 LEC/10 LAB/00 EXT/12.5 TL

Upon completion of this course, students will be introduced to the common hand tools used in a variety of construction crafts. They will be able to identify the common hand tools used, how to safety use them and how to properly maintain them. [Prerequisite: MOD 00101-15 and MOD 00102-15]

MOD 00104-15 Introduction to Power Tools

2.5 LEC/10 LAB/00 EXT/12.5 TL

Upon completion of this course, students will be able to identify and describe the operation of many power tools commonly used in the construction environment. They will gain the knowledge to properly use them, as well as safe-handling guidelines and how to properly provide maintenance. [Prerequisite: MOD00101-15, MOD00102-15 & MOD00103-15]

MOD 00105-15 Introduction to Construction Drawings

2.5 LEC/10 LAB/00 EXT/12.5 TL

Upon completion of this course, students will be introduced to the various types of construction drawings. Students will be able to identify and describe the purpose of the five basic constructions drawing components, the significance of various drawing elements, such as lines of construction, symbols and grid lines. They will also cover the interpretation and use of drawing dimensions and the various drawing scales. Students will be able to identify and describe how to use engineer's and architect's scales. [Prerequisite: MOD 00101-15, MOD00102-15, MOD00103-15 & MOD00104-15]

MOD 00106-15 Introduction to Basic Rigging

2.5 LEC/5.0 LAB/0 EXT/7.5 TL

Upon completion of this course, students will be able to identify the different types of rigging and rigging hardware, such as slings, as well as rigging hitches and hoists. Students will gain an understanding on how to inspect and safely use rigging hardware. Students will know the importance of safe working habits in the vicinity of rigging operations. [Prerequisite: MOD 00101-15, MOD00102-15, MOD00103-15, MOD00104-15 & MOD00105-15]

MOD 00107-15 Basic Communication Skills

2.5 LEC/5.0 LAB/00 EXT/ 7.5TL

Upon completion of this course, students will become familiar with effective communications skills in the workplace which includes written and verbal communication. Students will understand the importance of their reading skills and how it relates to effective telephone communication and email communication in the construction industry. These communications skills will enable the student to gain confidence and become an asset to the construction profession. [Prerequisite: MOD 00101-15, MOD00102-15, MOD00103-15, MOD00104-15, MOD00105-15 & MOD00106-15]

MOD 00108-15 Basic Employability Skills

2.5 LEC/5.0 LAB/00 EXT/7.5 TL

Upon completion of this course, students will identify the various job opportunities offered by the construction trades. Students will gain an understanding on the importance of critical thinking skills, problem-solving skills and how they relate to an effective interaction with others in the construction industry to help ensure their success in the profession. Students will identify and discuss positive social skills and will be able to present information on computer systems and their industry applications. [Prerequisite: MOD 00101-15, MOD00102-15, MOD00103-15, MOD00104-15, MOD00105-15, MOD00106-15 & MOD00107-15]

MOD 00109-15 Introduction to Material Handling

2.5 LEC/2.5 LAB/00 EXT/5.0 TL

Upon completion of this course, students will be able to identify the hazards associated with handling materials and will be familiarized with the proper techniques used to avoid injury and property damage. Proper techniques covered will be lifting, tracking, transporting and uploading materials. Students will also be introduced to the material-handling equipment such as basic motorized and non-motorized equipment commonly found in the construction environment. [Prerequisite: MOD 00101-15, MOD00102-15, MOD00103-15, MOD00104-15, MOD00105-15, MOD00106-15, MOD00107-15 & MOD00108-15]