



BUILD YOUR FUTURE: CROSSWALK

COAST GUARD EQUIVALENCY ALIGNMENT

THEY'VE DEFENDED AMERICA, NOW LET'S HELP THEM BUILD IT.



GETTING STARTED AND DEFINITIONS

INTRODUCTION

Did you know that nearly 200,000 soldiers are transitioning each year and have a difficult time translating their acquired skills and experience into marketable civilian jobs/careers? Do you receive quite a few military applications, but are challenged by the language and skill set that individuals possess? Hard Hat Heroes has created a task-based alignment that will close that communication gap between employers and veterans. This document will help construction industry hiring representatives identify the knowledge and skills candidates possess, focus on the specific training they need and ultimately place soldiers more effectively.

PURPOSE

NCCER wants to give credit to military members for the training they received while in the service. Transitioning military and veterans are able to go to **veterans.byf.org** and submit their existing training to receive NCCER credentials and view the areas where they need additional training.

This alignment is provided to assist hiring managers in identifying the existing knowledge and skills a veteran has and to outline the training he or she needs to be fully competent.

WHAT THIS ALIGNMENT IS ABOUT

Hard Hat Heroes has identified Coast Guard Specialty Codes that have training that align directly with NCCER craft training. These codes are organized into sections and a table is provided for each one defining NCCER's crafts, levels and modules that align to that specific military specialty code.

Each module builds upon one another to accomplish a level completion and this information is tracked through NCCER. An industry-recognized credential is awarded with level completions and each craft usually has three to four levels.

NCCER DEFINITIONS

NCCER Curriculum is broken down by craft/discipline, is competency-based, modular in format and compliant with Department of Labor Office of Apprenticeship requirements.

CRAFT:

Another name for a trade (i.e. carpentry, masonry and welding). NCCER refers to individuals working in a trade as being a craft professional.

BOOK

This is an instructional unit which makes up NCCER's curriculum levels. These units are generally referred to as chapters in textbooks. Module completions require successful completion of both a written test and performance test when available.

LEVEL:

A number of modules designed and sequenced to form approximately one year of training and/or a minimum of 144 hours of instruction.

CREDENTIAL:

A document or certificate with NCCER's stamp of approval stating an individual has completed training in specific craft areas.

visit **veterans.byf.org** for more information.



FIND YOUR CROSSWALK

Machinery Technician

MK-22: Machinery Technician - Refrigeration & Air Conditioning (“C” School) 1

Electrician’s Mate

E-4 or Higher: Electrician’s Mate (“A” School) 7

Other

E-1 or Higher: Sailor 9

E-5 or Higher: Noncommissioned Officer 11

O-1 or Higher: Officer 13

BUILD YOUR FUTURE. BUILD AMERICA.

Coast Guard: MK-22

Machinery Technician:
Refrigeration & Air Conditioning (“C” School)



**HARD HAT™
HEROES**



CRAFT	LEVEL	MODULE	MODULE TITLE
Core	1	00100	Build Your Future in Construction
		00102	Introduction to Construction Math
		00103	Introduction to Hand Tools
		00107	Basic Communication Skills
		00108	Basic Employability Skills

CRAFT	LEVEL	MODULE	MODULE TITLE
HVACR	1	03101	Introduction to HVACR
		03102	Trade Mathematics
		03103	Basic Copper and Plastic Piping Practices
		03104	Soldering and Brazing
		03105	Basic Carbon Steel Piping Practices
		03106	Basic Electricity
		03107	Introduction to Cooling
HVACR	2	03201	Commercial Airside Systems
		03204	Air Quality Equipment
		03205	Leak Detection, Evacuation, Recovery, and Charging
		03206	Alternating Current
		03211	Heat Pumps
		03215	Basic Maintenance
		03301	Refrigerants and Oils
		03302	Compressors
		03303	Metering Devices

CRAFT	LEVEL	MODULE	MODULE TITLE
HVACR	3	03210	Troubleshooting Cooling
		03304	Retail Refrigeration Systems
		03311	Troubleshooting Heat Pumps
		03312	Troubleshooting Accessories
		03313	Fasteners, Hardware, and Wiring Terminations
		03314	Control Circuit and Motor Troubleshooting
		03315	Zoning, Ductless, and Variable Refrigerant Flow Systems
HVACR	4	03406	System Startup and Shutdown
		03408	Commercial and Industrial Refrigeration Systems

BUILD YOUR FUTURE. BUILD AMERICA.

Coast Guard: E-4 or Higher

Electrician's Mate ("A" School)



**HARD HAT
HEROES**



CRAFT	LEVEL	MODULE	MODULE TITLE
Core	1	00100	Build Your Future in Construction
		00102	Introduction to Construction Math
		00103	Introduction to Hand Tools
		00107	Basic Communication Skills
		00108	Basic Employability Skills



CRAFT	LEVEL	MODULE	MODULE TITLE
Electrical	1	26101-20	Occupational Overview: The Electrical Industry
		26102-20	Safety for Electricians
		26103-20	Introduction to Electrical Circuits
		26104-20	Electrical Theory
		26106-20	Device Boxes
		26108-20	Wireways, Raceways & Fittings
		26110-20	Basic Electrical Construction Drawings
		26111-20	Residential Wiring
		26112-20	Electrical Test Equipment
Electrical	2	26201-20	Alternating Current
		26202-20	Motors: Theory and Application
		26203-20	Electric Lighting
		26205-20	Pull and Junction Boxes
		26207-20	Cable Tray
		26208-20	Conductor Terminations and Splices
		26210-20	Circuit Breakers and Fuses
		26211-20	Control Systems and Fundamental Concepts

CRAFT	LEVEL	MODULE	MODULE TITLE
Electrical	3	26302-20	Conductor Selection and Calculations
		26305-20	Overcurrent Protection
		26306-20	Distribution Equipment
		26307-20	Transformers
		26309-20	Motor Calculations
		26311-20	Motor Controls
Electrical	4	26404-20	Basic Electronic Theory
		26406-20	Specialty Transformers
		26407-20	Advanced Controls
		26410-20	Motor Operation and Maintenance

BUILD YOUR FUTURE. BUILD AMERICA.

Coast Guard: E-1 or Higher

Sailor



**HARD HAT™
HEROES**



CRAFT	LEVEL	MODULE	MODULE TITLE
Core	1	00102	Introduction to Construction Math
		00107	Basic Communication Skills
		00108	Basic Employability Skills

CRAFT	MODULE	MODULE TITLE
Sustainable Construction	70101	Your Role In the Green Environment
Safety Technology	75219	Hazard Recognition, Environmental Awareness, and Occupational Health

BUILD YOUR FUTURE. BUILD AMERICA.

Coast Guard: E-5 or Higher

Noncommissioned Officer



CRAFT	MODULE	MODULE TITLE
Fundamentals of Crew Leadership	46101	Fundamentals of Crew Leadership
Mentoring for Craft Professionals	46102-16	Mentoring for Craft Professionals

BUILD YOUR FUTURE. BUILD AMERICA.

Coast Guard: O-1 or Higher

Officer



CRAFT	MODULE	MODULE TITLE
Fundamentals of Crew Leadership	46101	Fundamentals of Crew Leadership
Mentoring for Craft Professionals	46102-16	Mentoring for Craft Professionals



BUILD YOUR FUTURE
VETERANS.BYF.ORG
@buildyourfuture



© 2023 NCCER