





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 Marine 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

Heavy Equipment Mechanic 1341: Heavy Equipment Mechanic NCO **Engineer Equipment Operator** 1349: Engineer Equipment Chief **Engineer Assistant** 1361: Engineering Assistant 1361: Engineering Chief **Other** E-1 or Higher: Marine E-5 or Higher: Noncommissioned Officer O-1 or Higher: Officer

Marine Corps: 1341

Heavy Equipment Mechanic Basic



















CRAFT	LEVEL	MODULE	MODULE TITLE			
	1	00102	Introduction to Construction Math			
		00103	Introduction to Hand Tools			
		00104	Introduction to Power Tools			
Core		1	1	1	00106	Introduction to Basic Rigging
		00107	Basic Communication Skills			
			00108	Basic Employability Skills		
		00109	Introduction to Material Handling			





CRAFT	LEVEL	MODULE	MODULE TITLE
HVACR	1	03103	Basic Copper and Plastic Piping Practices
пуаск		03106	Basic Electricity
HVACR	2	03215	Basic Maintenance
ПЛУСЬ	2	03313	Fasteners, Hardware, and Wiring Terminations
HVACR	5	03316	Customer Relations
HVACR	$$	03401	Construction Drawings and Specifications
TVACK	4	03403	Indoor Air Quality





CRAFT	LEVEL	MODULE	MODULE TITLE
		12107-14	Instrument Drawings and Documents, Part One
		12108-14	Gaskets, O-Rings, and Packing
		12109-14	Lubricants, Sealants, and Cleaners
Instrumentation	1	12111-14	Tubing
	•	12113-14	Hoses
		12115-14	Instrumentation Safety Practices
		12116-14	Electrical Systems for Instrumentation
		12110-15	Temperature, Pressure, Level, and Flow
Instrumentation	7	12210-15	Instrument Air Filters, Regulators, and Dryers
		12303-15	Clean, Purge, and Test Tubing and Piping Systems





CRAFT	LEVEL	MODULE	MODULE TITLE	
Mobile Crane Operations	1	21102	Basic Principles of Cranes	
Mobile Crane Operations		21106	Crane Safety and Emergency Procedures	

CRAFT	LEVEL	MODULE	MODULE TITLE
		32101-07	Orientation to the Trade
		32102-07	Tools of the Trade
		32103-07	Fasteners and Anchors
Industrial Maintenance	1	32108-07	Pumps and Drivers
Mechanic		32109-07	Valves
		32111-07	Material Handling and Hand Rigging
		32112-07	Mobile and Support Equipment
		32113-07	Lubrication
		32203-07	Copper and Plastic Piping Practices
Industrial Maintenance Mechanic	7_	32205-07	Identify, Install, and Maintain Valves
Mechanic		32207-07	Introduction to Bearings

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CRAFT	LEVEL	MODULE	MODULE TITLE
		32302-08	Precision Measuring Tools
	_	32303-08	Installing Bearings
Industrial Maintenance Mechanic	3	32304-08	Installing Couplings
Mechanic		32307-08	Installing Belt and Chain Drives
			32308-08
		32402-09	Advanced Blueprint Reading
Industrial Maintenance Mechanic	4	32403-09	Compressors and Pneumatic Systems
Mechanic		32407-09	Troubleshooting and Repairing Pumps

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

Marine Corps: 1341

Heavy Equipment Mechanic NCO



















CRAFT	LEVEL	MODULE	MODULE TITLE
HVACR	1	03101	Introduction to HVACR
		03205	Leak Detection, Evacuation, Recovery and Charging
HVACR	7	03301	Refrigerants and Oils Devices
		03303	Metering Devices
HVACR	3	03210	Troubleshooting Cooling

CRAFT	LEVEL	MODULE	MODULE TITLE
Instrumentation	1	12106-14	Fasteners





CRAFT	LEVEL	MODULE	MODULE TITLE
Industrial Maintenance	1	32406-09	Introduction to Supervisory Skills
Mechanic	4	32408-09	Troubleshooting and Repairing Gearboxes

CRAFT	LEVEL	MODULE	MODULE TITLE
Basic Rigger	1	38102	Rigging Practices

CRAFT	MODULE	MODULE TITLE
Fundamentals of Crew Leadership	46101	Fundamentals of Crew Leadership

Marine Corps: 1345

Engineer Equipment Operator Basic



















CRAFT	LEVEL	MODULE	MODULE TITLE
		00102	Introduction to Construction Math
		00103	Introduction to Hand Tools
Core	1	00107	Basic Communication Skills
	•	00108	Basic Employability Skills
		00109	Introduction to Material Handling





CRAFT	LEVEL	MODULE	MODULE TITLE
		22101	Orientation to the Trade
Hoovy Equipment Operations	1	22103	Identification of Heavy Equipment
Heavy Equipment Operations	l	22104	Basic Operational Techniques
		22201	Introduction to Earthmoving
Hoavy Equipment Operations	a	22205	Loaders
Heavy Equipment Operations	Z	22206	Rough Terrain Forklifts
	3	22302	Dozers
Heavy Equipment Operations		22303	Backhoes
		22305	Motor Graders

US MARINE CORPS ENGINEER EQUIPMENT OPERATOR BASIC





CRAFT	LEVEL	MODULE	MODULE TITLE
Heavy Highway Construction	1	36111	Heavy Highway Construction Equipment

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

Marine Corps: 1345

Engineer Equipment Operator NCO















US MARINE CORPS ENGINEER EQUIPMENT OPERATOR NCO





CRAFT	LEVEL	MODULE	MODULE TITLE
Core	1	00106	Introduction to Basic Rigging

CRAFT	LEVEL	MODULE	MODULE TITLE			
		21101	Orientation to the Trade			
Mobile Crane Operations	1	21102	Basic Principles of Cranes			
Mobile Crane Operations		21105	Operating a Crane			
		21106	Crane Safety and Emergency Procedures			
	2	21202	Machine Power Flow			
		21203	Crane Maintenance and Inspections			
Mobile Crane Operations		1	2	7	2	21204
·		21205	Computer Aids/Operator Aids			
		21207	On-Site Equipment Movement			
		21308	Transporting Requirements			
Mobile Crane Operations	3	21301	Load Charts			

US MARINE CORPS ENGINEER EQUIPMENT OPERATOR NCO





CRAFT	LEVEL	MODULE	MODULE TITLE
Hann Farriament On austinus	2	22204	Scrapers
Heavy Equipment Operations	Z	22207	Excavation Math

CRAFT	LEVEL	MODULE	MODULE TITLE
Basic Rigger	1	38102	Rigging Practices

CRAFT	LEVEL	MODULE	MODULE TITLE
Signal Person	1	53101	Crane Communications

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

Marine Corps: 1349

Engineer Equipment Chief















US MARINE CORPS ENGINEER EQUIPMENT CHIEF





CRAFT	LEVEL	MODULE	MODULE TITLE
		44103	Interpersonal Skills
		44106	Construction Planning
Project Management 1	1	44108	Scheduling
	•	44109	Resource Control
		44111	Continuous Improvement

CRAFT	LEVEL	MODULE	MODULE TITLE
Project Supervision		MT202	Human Relations and Problem Solving
	1	MT203	Safety
	•	MT207	Planning and Scheduling

Marine Corps: 1361

Engineering Assistant





















CRAFT	LEVEL	MODULE	MODULE TITLE
		00102	Introduction to Construction Math
		00103	Introduction to Hand Tools
Coro	1	00105	Introduction to Construction Drawings
Core		00107	Basic Communication Skills
		00108	Basic Employability Skills
		00109	Introduction to Material Handling

CRAFT	LEVEL	MODULE	MODULE TITLE
Heavy Equipment Operations	1	22106	Grades, Part One

CRAFT	LEVEL	MODULE	MODULE TITLE
Heavy Highway Construction	1	36101	Orientation to the Trade





CRAFT	LEVEL	MODULE	MODULE TITLE
		78101-04	Introduction to Site Layout
Site Layout	1	78103-04	Survey Equipment Use and Care One
ŕ		78104-04	Blueprint Reading for Surveyors
		78202-04	Survey Equipment Use and Care Two, EDMIs and Total Stations
Cita Lavaut	7	78202-04 78203-04	Survey Equipment Use and Care Two, EDMIs and Total Stations Control Setup
Site Layout	2		

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

Marine Corps: 1361

Engineering Chief

















US MARINE CORPS ENGINEERING CHIEF





CRAFT	LEVEL	MODULE	MODULE TITLE
Heavy Equipment Operations	2	22209	Interpreting Civil Drawings

CRAFT	LEVEL	MODULE	MODULE TITLE
Site Layout	2	78204-04	Boundary and Topography Surveys
	Z	78206-04	Concrete Properties and Quality Control

Marine Corps: E-1 or Higher

Marine





















CRAFT	LEVEL	MODULE	MODULE TITLE
Core		00102	Introduction to Construction Math
	1	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

Marine Corps: E-5 or Higher

Noncommissioned Officer















US MARINE CORPS 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

Marine Corps: 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

