



# **BUILD YOUR FUTURE: CROSSWALK**

**NAVY 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 Navy 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

### Builder

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### Construction Electrician

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### Construction Mechanic

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### Other

E-1 or Higher: Sailor .....	52
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O-1 or Higher: Officer .....	56



# **BUILD YOUR FUTURE. BUILD AMERICA.**

**Navy: BUCA, BUCN, BU3, BU2**

Builder Basic



**HARD HAT  
HEROES**



CRAFT	LEVEL	MODULE	MODULE TITLE
Core	1	00101	Basic Safety
		00102	Introduction to Construction Math
		00103	Introduction to Hand Tools
		00104	Introduction to Power Tools
		00107	Basic Communication Skills
		00108	Basic Employability Skills
		00109	Introduction to Material Handling

CRAFT	LEVEL	MODULE	MODULE TITLE
Sheet Metal	2	04202	Construction and Sheet Metal Drawings

CRAFT	LEVEL	MODULE	MODULE TITLE
Concrete Construction	1	23101	Introduction to Concrete Construction
		23102	Concrete Safety
		23104	Concrete Tools and Equipment
		23105	Preparing for Placement
		23107	Finishing Concrete
		23108	Curing and Protecting Concrete
		23204	Site Concrete
Concrete Construction	2	23202	Estimating Concrete Quantities
		23210	Concrete Repair
		23211	Troubleshooting and Quality Control
		23212	Properties of Concrete

CRAFT	LEVEL	MODULE	MODULE TITLE
Carpentry	1	27101	Orientation to the Trade
		27102	Building Materials, Fasteners and Adhesives
		27103	Hand and Power Tools
		27105	Floor Systems
		27110	Basic Stair Layout
		27111	Wall Systems
		27112	Ceiling Joist and Roof Framing
Carpentry	2	27202	Roofing Applications
		27204	Exterior Finishing
		27205	Cold-Formed Steel Framing
		27208	Doors and Door Hardware
		27210	Window, Door, Floor, and Ceiling Trim



CRAFT	LEVEL	MODULE	MODULE TITLE
Carpentry	3	27303	Properties of Concrete
		27304	Reinforcing Concrete
		27305	Handling and Placing Concrete
		27307	Foundations and Slabs-on-Grade
		27308	Vertical Formwork
Carpentry	4	27404	Advanced Wall Systems
		27405	Advanced Stair Systems



CRAFT	LEVEL	MODULE	MODULE TITLE
Masonry	1	28101	Introduction to Masonry
		28102	Masonry Tools and Equipment
		28103	Measurements, Drawings, and Specifications
		28104	Mortar
		28106	Masonry Safety
Masonry	2	28203	Reinforced Masonry
		28205	Advanced Laying Techniques

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

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**Navy: BU1, BUC, CUCS**

Builder Senior



CRAFT	LEVEL	MODULE	MODULE TITLE
Project Management	1	44101	Introduction to Project Management
		44103	Interpersonal Skills
		44104	Issues and Resolutions
		44106	Construction Planning
		44108	Scheduling

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

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

# BUILD YOUR FUTURE. BUILD AMERICA.

Navy: CUCM

Builder Master



CRAFT	LEVEL	MODULE	MODULE TITLE
Project Management	1	44102	Safety
		44105	Construction Documents
		44107	Estimating and Cost Control
		44110	Quality Control and Assurance
		44111	Continuous Improvement

CRAFT	LEVEL	MODULE	MODULE TITLE
Project Supervision	1	MT201	Orientation to the Job
		MT203	Safety
		MT204	Quality Control
		MT205	Contract and Construction Documents
		MT206	Document Control and Estimating
		MT208	Resource Control and Cost Awareness

# **BUILD YOUR FUTURE. BUILD AMERICA.**

**Navy: CECA, CECN, CE3, CE2**

Construction Electrician Basic





CRAFT	LEVEL	MODULE	MODULE TITLE
Core	1	00101	Basic Safety
		00102	Introduction to Construction Math
		00103	Introduction to Hand Tools
		00104	Introduction to Power Tools
		00105	Introduction to Construction Drawings
		00107	Basic Communication Skills
		00108	Basic Employability Skills
		00109	Introduction to Material Handling

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
		26105-20	Introduction to the National Electrical Code®
		26106-20	Device Boxes
		26107-20	Hand Bending
		26108-20	Wireways, Raceways, and Fittings
		26110-20	Basic Electrical Construction Drawings
		26111-20	Residential Wiring
		26112-20	Electrical Test Equipment
Electrical	2	26203-20	Electric Lighting
		26204-20	Conduit Bending
		26205-20	Pull and Junction Boxes
		26210-20	Circuit Breakers and Fuses

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

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# **BUILD YOUR FUTURE. BUILD AMERICA.**

**Navy: CE1, CEC, CECS**

Electrician Senior



CRAFT	LEVEL	MODULE	MODULE TITLE
Project Management	1	44101	Introduction to Project Management
		44103	Interpersonal Skills
		44104	Issues and Resolutions
		44106	Construction Planning
		44108	Scheduling

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

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

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# **BUILD YOUR FUTURE. BUILD AMERICA.**

**Navy: UCCM**

Electrician Master





CRAFT	LEVEL	MODULE	MODULE TITLE
Project Management	1	44102	Safety
		44105	Construction Documents
		44107	Estimating and Cost Control
		44110	Quality Control and Assurance
		44111	Continuous Improvement

CRAFT	LEVEL	MODULE	MODULE TITLE
Project Supervision	1	MT201	Orientation to the Job
		MT203	Safety
		MT204	Quality Control
		MT205	Contract and Construction Documents
		MT206	Document Control and Estimating
		MT208	Resource Control and Cost Awareness

# **BUILD YOUR FUTURE. BUILD AMERICA.**

**Navy: CMCA, CMCN, CM3**

Construction Mechanic Basic





CRAFT	LEVEL	MODULE	MODULE TITLE
Core	1	00101	Basic Safety
		00102	Introduction to Construction Math
		00103	Introduction to Hand Tools
		00104	Introduction to Power Tools
		00107	Basic Communication Skills
		00108	Basic Employability Skills
		00109	Introduction to Material Handling



CRAFT	LEVEL	MODULE	MODULE TITLE
Industrial Maintenance Mechanic	1	32101-07	Orientation to the Trade
		32102-07	Tools of the Trade
		32105-07	Gaskets and Packing
		32109-07	Valves
		32110-07	Introduction to Test Instruments
		32113-07	Lubrication
Industrial Maintenance Mechanic	2	32205-07	Identify, Install, and Maintain Valves
		32207-07	Introduction to Bearings
Industrial Maintenance Mechanic	3	32303-08	Installing Bearings

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

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# **BUILD YOUR FUTURE. BUILD AMERICA.**

**Navy: EQCM**

Construction Mechanic Master



CRAFT	LEVEL	MODULE	MODULE TITLE
Project Management	1	44101	Introduction to Project Management
		44102	Safety
		44103	Interpersonal Skills
		44104	Issues and Resolutions
		44105	Construction Documents
		44106	Construction Planning
		44107	Estimating and Cost Control
		44108	Scheduling
		44110	Quality Control and Assurance
		44111	Continuous Improvement



CRAFT	LEVEL	MODULE	MODULE TITLE
Project Supervision	1	MT201	Orientation to the Job
		MT202	Human Relations and Problem Solving
		MT203	Safety
		MT204	Quality Control
		MT205	Contract and Construction Documents
		MT207	Planning and Scheduling

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

# BUILD YOUR FUTURE. BUILD AMERICA.

**Navy: CUCS**

Engineering Aide Senior





CRAFT	LEVEL	MODULE	MODULE TITLE
Project Management	1	44101	Introduction to Project Management
		44103	Interpersonal Skills
		44104	Issues and Resolutions
		44106	Construction Planning
		44108	Scheduling

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

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

# BUILD YOUR FUTURE. BUILD AMERICA.

**Navy: CUCM**

Engineering Aide Master



CRAFT	LEVEL	MODULE	MODULE TITLE
Project Management	1	44102	Safety
		44105	Construction Documents
		44107	Estimating and Cost Control
		44110	Quality Control and Assurance
		44111	Continuous Improvement

CRAFT	LEVEL	MODULE	MODULE TITLE
Project Supervision	1	MT201	Orientation to the Job
		MT203	Safety
		MT204	Quality Control
		MT205	Contract and Construction Documents
		MT206	Document Control and Estimating
		MT208	Resource Control and Cost Awareness

# **BUILD YOUR FUTURE. BUILD AMERICA.**

**Navy: EOCA, EOCN, EO3**

Equipment Operator Basic







CRAFT	LEVEL	MODULE	MODULE TITLE
Core	1	00101	Basic Safety
		00102	Introduction to Construction Math
		00103	Introduction to Hand Tools
		00104	Introduction to Power Tools
		00105	Introduction to Construction Drawings
		00107	Basic Communication Skills
		00108	Basic Employability Skills
		00109	Introduction to Material Handling

CRAFT	LEVEL	MODULE	MODULE TITLE
Heavy Equipment Operations	1	22101	Orientation to the Trade
		22102	Heavy Equipment Safety
		22103	Identification of Heavy Equipment
		22104	Basic Operational Techniques
		22105	Utility Tractors
		22106	Grades, Part One
		22201	Introduction to Earthmoving
Heavy Equipment Operations	2	22202	On-Road Dump Trucks
		22204	Scrapers
		22205	Loaders
		22209	Interpreting Civil Drawings
		22210	Site Work
		22212	Skid Steers
		22308	Soils



CRAFT	LEVEL	MODULE	MODULE TITLE
Heavy Equipment Operations	3	22302	Dozers
		22303	Backhoes
		22304	Excavators
		22305	Motor Graders
		22310	Off-Road Dump Trucks

CRAFT	LEVEL	MODULE	MODULE TITLE
Concrete Construction	1	23101	Introduction to Concrete Construction
		23102	Concrete Safety
		23204	Site Concrete
Concrete Construction	2	23202	Estimating Concrete Quantities
		23212	Properties of Concrete

CRAFT	LEVEL	MODULE	MODULE TITLE
Heavy Highway Construction	1	36101	Orientation to the Trade
		36111	Heavy Highway Construction Equipment



CRAFT	LEVEL	MODULE	MODULE TITLE
Site Layout	1	78101-04	Introduction to Site Layout
		78103-04	Survey Equipment Use and Care One

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.

**Navy: EQCM**

Equipment Operator Master



CRAFT	LEVEL	MODULE	MODULE TITLE
Project Management	1	44101	Introduction to Project Management
		44102	Safety
		44103	Interpersonal Skills
		44104	Issues and Resolutions
		44105	Construction Documents
		44106	Construction Planning
		44107	Estimating and Cost Control
		44108	Scheduling
		44110	Quality Control and Assurance
		44111	Continuous Improvement

CRAFT	LEVEL	MODULE	MODULE TITLE
Project Supervision	1	MT201	Orientation to the Job
		MT202	Human Relations and Problem Solving
		MT203	Safety
		MT204	Quality Control
		MT205	Contract and Construction Documents
		MT206	Document Control and Estimating
		MT207	Planning and Scheduling
		MT208	Resource Control and Cost Awareness

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

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**Navy: CUCS**

Steelworker Senior





CRAFT	LEVEL	MODULE	MODULE TITLE
Project Management	1	44101	Introduction to Project Management
		44103	Interpersonal Skills
		44104	Issues and Resolutions
		44106	Construction Planning
		44108	Scheduling

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

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

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# **BUILD YOUR FUTURE. BUILD AMERICA.**

**Navy: CUCM**

Steelworker Master



CRAFT	LEVEL	MODULE	MODULE TITLE
Project Management	1	44102	Safety
		44105	Construction Documents
		44107	Estimating and Cost Control
		44110	Quality Control and Assurance
		44111	Continuous Improvement

CRAFT	LEVEL	MODULE	MODULE TITLE
Project Supervision	1	MT201	Orientation to the Job
		MT203	Safety
		MT204	Quality Control
		MT205	Contract and Construction Documents
		MT206	Document Control and Estimating
		MT208	Resource Control and Cost Awareness

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

# **BUILD YOUR FUTURE. BUILD AMERICA.**

**Navy: UTCA, UTCN, UT3, UT2**

Utilitiesman Basic



CRAFT	LEVEL	MODULE	MODULE TITLE
Core	1	00101	Basic Safety
		00102	Introduction to Construction Math
		00103	Introduction to Hand Tools
		00104	Introduction to Power Tools
		00105	Introduction to Construction Drawings
		00107	Basic Communication Skills
		00108	Basic Employability Skills
		00109	Introduction to Material Handling



CRAFT	LEVEL	MODULE	MODULE TITLE
Plumbing	1	02101	Introduction to the Plumbing Profession
		02103	Tools of the Plumbing Trade
		02104	Introduction to Plumbing Math
		02105	Introduction to Plumbing Drawings
		02106	Plastic Pipe and Fittings
		02107	Copper Pipe and Fittings
		02109	Carbon Steel Pipe and Fittings
		02110	Introduction to Plumbing Fixtures
		02111	Introduction to Drain, Waste, and Vent (DWV) Systems
		02112	Introduction to Water Distribution Systems
Plumbing	2	02201-13	Plumbing Math Two
		02202-13	Reading Commercial Drawings
		02204-13	Installing and Testing DWV Piping
		02206-13	Installing and Testing Water Supply Piping
		02207-13	Types of Valves
		02208-13	Installing Fixtures and Valves
		02209-13	Installing Water Heaters
		02210-13	Basic Electricity



CRAFT	LEVEL	MODULE	MODULE TITLE
Plumbing	3	02301-14	Applied Math
		02305-14	Types of Venting
		02311-14	Service Plumbing

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

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# **BUILD YOUR FUTURE. BUILD AMERICA.**

**Navy: UT1, UTC, UTCS**

Utilitiesman Senior





CRAFT	LEVEL	MODULE	MODULE TITLE
Project Management	1	44101	Introduction to Project Management
		44103	Interpersonal Skills
		44104	Issues and Resolutions
		44106	Construction Planning
		44108	Scheduling

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

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

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**Navy: UCCM**

Utilitiesman Master



CRAFT	LEVEL	MODULE	MODULE TITLE
Project Management	1	44102	Safety
		44105	Construction Documents
		44107	Estimating and Cost Control
		44110	Quality Control and Assurance
		44111	Continuous Improvement

CRAFT	LEVEL	MODULE	MODULE TITLE
Project Supervision	1	MT201	Orientation to the Job
		MT203	Safety
		MT204	Quality Control
		MT205	Contract and Construction Documents
		MT206	Document Control and Estimating
		MT208	Resource Control and Cost Awareness

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**Navy: E-1 or Higher**

Sailor



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.**

**Navy: 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

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**Navy: 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



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