



HARD HAT HEROES: CROSSWALK

AIR FORCE 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 service members 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 veterans 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 hardhatheroes.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 Air Force 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 hardhatheroes.org for more information.



FIND YOUR CROSSWALK

Electrical Power Production

3E032: Electrical Power Production Apprentice	1
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Pavements and Construction Equipment

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Structural

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Water and Fuel Systems Maintenance

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3E471: Water and Fuel Systems Maintenance Craftsman	45

Other

E-1 or Higher: Airman	48
E-5 or Higher: Noncommissioned Officer	50
O-1 or Higher: Officer	52

NCCER Credential Equivalency Alignment

Air Force: 3E032

Electrical Power Production Apprentice



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CRAFT	LEVEL	MODULE	MODULE TITLE
Core	1	00102	Introduction to Construction Math
		00103	Introduction to Hand 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
		26103-20	Introduction to Electrical Circuits
		26110-20	Basic Electrical Construction Drawings
		26112-20	Electrical Test Equipment



CRAFT	LEVEL	MODULE	MODULE TITLE
Industrial Maintenance Electrical & Instrumentation Technician	1	40102-07	Tools of the Trade
		40109-07	Valves
		40110-07	Introduction to Test Instruments
		40113-07	Lubrication
Industrial Maintenance Electrical & Instrumentation Technician	2	40205-08	E & I Test Equipment
		40206-08	Flow, Pressure, Level, and Temperature
Industrial Maintenance Electrical & Instrumentation Technician	3	40305-09	Distribution Equipment
		40306-09	Transformer Applications
		40307-09	Conductor Selection and Calculations
		40311-09	Hydraulic Controls

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

NCCER Credential Equivalency Alignment

US Air Force: 3E052

Electrical Power Production Journeyman



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CRAFT	LEVEL	MODULE	MODULE TITLE
Core	1	00104	Introduction to Power Tools

CRAFT	LEVEL	MODULE	MODULE TITLE
Electrical	1	26105-20	Introduction to the National Electrical Code®
		26110-20	Basic Electrical Construction Drawings
Electrical	2	26208-20	Conductor Terminations and Splices
		26209-20	Grounding and Bonding
		26210-20	Circuit Breakers and Fuses
		26211-20	Control Systems and Fundamental Concepts
Electrical	3	26302-20	Conductor Selection and Calculations
		26306-20	Distribution Equipment

CRAFT	MODULE	MODULE TITLE
Managing Electrical Hazards	26501-21	Managing Electrical Hazards (2021 NFPA 70E)



CRAFT	LEVEL	MODULE	MODULE TITLE
Industrial Maintenance Electrical & Instrumentation Technician	1	40103-07	Fasteners and Anchors
		40105-07	Gaskets and Packing
		40106-07	Craft-Related Mathematics
		40107-07	Construction Drawings
		40112-07	Mobile and Support Equipment
Industrial Maintenance Electrical & Instrumentation Technician	2	40202-08	Introduction to the National Electrical Code®
		40203-08	Electrical Theory
		40204-08	Alternating Current
		40212-08	Conductors and Cables
		40213-08	Conductor Terminations and Splices
Industrial Maintenance Electrical & Instrumentation Technician	3	40312-09	Pneumatic Controls
Industrial Maintenance Electrical & Instrumentation Technician	4	40401-09	Standby and Emergency Systems



CRAFT	LEVEL	MODULE	MODULE TITLE
Power Generation Maintenance Electrician	3	50301-11	Power Plant Electrical Systems
		26110-20	Basic Electrical Construction Drawings
Power Generation Maintenance Electrician	4	50401-10	Generator Maintenance

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

NCCER Credential Equivalency Alignment

Air Force: 3E072

Electrical Power Production Craftsman



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CRAFT	LEVEL	MODULE	MODULE TITLE
Electrical	4	26401-20	Load Calculations - Feeders and Services
		26403-20	Standby and Emergency Systems

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
		44109	Resource Control
		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

NCCER Credential Equivalency Alignment

Air Force: 3E231

Pavements and Construction Equipment Apprentice



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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
		00106	Introduction to Basic Rigging
		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
Heavy Equipment Operations	2	22202	On-Road Dump Trucks
		22205	Loaders
		22206	Rough Terrain Forklifts
		22207	Excavation Math
		22212	Skid Steers
Heavy Equipment Operations	3	22302	Dozers
		22303	Backhoes
		22305	Motor Graders



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	23210	Concrete Repair
		23211	Troubleshooting and Quality Control
		23212	Properties of Concrete

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

NCCER Credential Equivalency Alignment

Air Force: 3E251

Pavements and Construction Equipment Journeyman



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CRAFT	LEVEL	MODULE	MODULE TITLE
Heavy Equipment Operations	1	22106	Grades, Part One
		22201	Introduction to Earthmoving
Heavy Equipment Operations	2	22204	Scrapers
		22209	Interpreting Civil Drawings
		22210	Site Work
		22308	Soils
Heavy Equipment Operations	3	22203	Compaction Equipment
		22304	Excavators
		22307	Finishing and Grading
		22310	Off-Road Dump Trucks



CRAFT	LEVEL	MODULE	MODULE TITLE
Concrete Construction	1	23204	Site Concrete
Concrete Construction	2	23202	Estimating Concrete Quantities
		23206	Industrial Floors
		23208	Surface Treatments
		23211	Troubleshooting and Quality Control

CRAFT	LEVEL	MODULE	MODULE TITLE
Carpentry	3	027308	Vertical Formwork
		27309	Horizontal Formwork

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

NCCER Credential Equivalency Alignment

Air Force: 3E271

Pavements and Construction Equipment Craftsman



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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
		44109	Resource Control
		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

NCCER Credential Equivalency Alignment

Air Force: 3E3

Structural Apprentice



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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
Sheet Metal	1	04101	Occupational Overview: The Sheet Metal Industry
		04102	Sheet Metal Tools and Equipment
		04103	Sheet Metal Layout and Processes
		04104	Sheet Metal Math and Measurements
		04105	Parallel Line Development



CRAFT	LEVEL	MODULE	MODULE TITLE
Painting	1	07101	Careers in the Painting Trade

CRAFT	LEVEL	MODULE	MODULE TITLE
Concrete Construction	1	23104	Concrete Tools and Equipment

CRAFT	LEVEL	MODULE	MODULE TITLE
Carpentry	1	27101	Orientation to the Trade
Carpentry	3	27304	Reinforcing Concrete
		27305	Handling and Placing Concrete

CRAFT	LEVEL	MODULE	MODULE TITLE
Masonry	1	28101	Introduction to Masonry
		28106	Masonry Safety



CRAFT	LEVEL	MODULE	MODULE TITLE
Welding	1	29107	SMAW - Equipment and Setup
Welding	2	29203	Physical Characteristics and Mechanical Properties of Metals

CRAFT	LEVEL	MODULE	MODULE TITLE
Ironworking	1	30103-11	Tools and Equipment of the Trade
Ironworking	2	30202-11	Position Arc Welding
		30204-11	Trade Drawings Two



CRAFT	LEVEL	MODULE	MODULE TITLE
Reinforcing Ironwork	1	39106-05	Oxyfuel Cutting

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

NCCER Credential Equivalency Alignment

Air Force: 3E351

Structural Journeyman



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CRAFT	LEVEL	MODULE	MODULE TITLE
Sheet Metal	1	04105	Parallel Line Development
		04106	Installation of Ductwork
Sheet Metal	2	04202	Construction and Sheet Metal Drawings
		04203	Radial Line Development
		04204	Sheet Metal Duct Fabrication Standards
		04206	Bend Allowances
		04301	Field Measurements, Calculations, and Fittings
		04306	Triangulation
Sheet Metal	4	04307	Architectural Sheet Metal
		04403	Welding and Brazing



CRAFT	LEVEL	MODULE	MODULE TITLE
Painting	1	07102	Safety
		07103	Ladders, Scaffolds, Lifts, and Fall Protection
		07105	Protecting Adjacent Surfaces
		07106	Basic Surface Preparation
		07107	Sealants and Repair/Fillers
		07108	Introduction to Paints and Coatings
		07109	Brushing and Rolling Paints and Coatings
Painting	2	07201	Painting Failures and Remedies
		07203	Chemical Cleaning and Stripping
		07204	Low-Pressure Water Cleaning
		07206	Drywall Finishing and Patching
		07207	Stains
		07208	Clear Finishes
		07209	Wood Finishing
		07210	Coatings Two



CRAFT	LEVEL	MODULE	MODULE TITLE
Concrete Construction	1	23101	Introduction to Concrete Construction
		23102	Concrete Safety
		23105	Preparing for Placement
		23107	Finishing Concrete
		23108	Curing and Protecting Concrete
		23204	Site Concrete
Concrete Construction	2	23202	Estimating Concrete Quantities
		23205	Architectural Finishes
		23211	Troubleshooting and Quality Control
		23212	Properties of Concrete



CRAFT	LEVEL	MODULE	MODULE TITLE
Carpentry	1	27102	Building Materials, Fasteners and Adhesives
		27103	Hand and Power Tools
		27104	Introduction to Construction Drawings, Specifications, and Layout
		27105	Floor Systems
		27109	Introduction to Building Envelope Systems
		27111	Wall Systems
		27112	Ceiling Joist and Roof Framing
Carpentry	2	27203	Thermal and Moisture Protection
		27204	Exterior Finishing
		27205	Cold-Formed Steel Framing
		27206	Drywall Installation
		27207	Drywall Finishing
		27208	Doors and Door Hardware
		27209	Suspended Ceilings
		27210	Window, Door, Floor, and Ceiling Trim
		27211	Cabinet Installation



CRAFT	LEVEL	MODULE	MODULE TITLE
Carpentry	3	27304	Reinforcing Concrete
		27305	Handling and Placing Concrete
		27307	Foundations and Slabs-on-Grade
		27308	Vertical Formwork
		27309	Horizontal Formwork
Carpentry	4	27405	Advanced Stair Systems
		27406	Introduction to Construction Equipment
		27407	Introduction to Oxyfuel Cutting and Arc Welding

CRAFT	LEVEL	MODULE	MODULE TITLE
Masonry	1	28102	Masonry Tools and Equipment
		28103	Measurements, Drawings, and Specifications
		28106	Masonry Safety
Masonry	2	28201	Residential Plans and Drawing Interpretation
		28203	Reinforced Masonry
		28206	Effect of Climate on Masonry
Masonry	3	28303	Repair and Restoration
		28305	Estimating



CRAFT	LEVEL	MODULE	MODULE TITLE
Welding	1	29101	Welding Safety
		29102	Oxyfuel Cutting
		29103	Plasma Arc Cutting
		29105	Base Metal Preparation
		29106	Weld Quality
		29109	SMAW - Beads and Fillet Welds
		29110	Joint Fit-Up and Alignment
		29111	SMAW - Groove Welds with Backing
		29112	SMAW - Open Root Groove Welds - Plate
Welding	2	29204	Preheating and Postheating of Metals
		29205	GMAW and FCAW - Equipment and Filler Metals
		29207	GTAW - Equipment and Filler Metals



CRAFT	LEVEL	MODULE	MODULE TITLE
Ironworking	1	30101-11	Introduction to the Trade
		30102-11	Trade Safety
		30105-11	Mobile Construction Cranes
		30108-11	Trade Drawings One
		30110-11	Plumbing, Aligning, & Guying
		30114-11	Metal Decking
		30115-11	Field Fabrication
Ironworking	2	30202-11	Position Arc Welding
		30203-11	Forklifts
Ironworking	3	30303-12	Miscellaneous/Ornamental Ironworking
		30310-12	Demolition
		30314-12	Flux Core for Ironworking



CRAFT	LEVEL	MODULE	MODULE TITLE
Scaffolding	1	31102	Trade Safety
		31103	Trade Tools and Equipment
		31106	Mobile Scaffolds

CRAFT	LEVEL	MODULE	MODULE TITLE
Reinforcing Ironwork	1	39101-05	Concrete Reinforcement
		39105-05	Commercial Blueprints



CRAFT	LEVEL	MODULE	MODULE TITLE
Drywall	1	45102-07	Construction Materials and Methods
		45103-07	Thermal and Moisture Protection
		45104-07	Drywall Installation
		45105-07	Drywall Finishing
Drywall	2	45201-09	Commercial Drawings
		45202-09	Steel Framing
		45203-09	Acoustical Ceilings
		45204-09	Interior Specialties
		45206-09	Specialty Finishes

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

NCCER Credential Equivalency Alignment

Air Force: 3E371

Structural Craftsman



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CRAFT	LEVEL	MODULE	MODULE TITLE
Sheet Metal	4	04401	Shop Production and Organization

CRAFT	LEVEL	MODULE	MODULE TITLE
Painting	2	07203	Chemical Cleaning and Stripping

CRAFT	LEVEL	MODULE	MODULE TITLE
Carpentry	1	27102	Building Materials, Fasteners and Adhesives
		27110	Basic Stair Layout
Carpentry	3	27304	Reinforcing Concrete

CRAFT	LEVEL	MODULE	MODULE TITLE
Masonry	3	28304	Commercial Drawings



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
		44109	Resource Control
		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

NCCER Credential Equivalency Alignment

Air Force: 3E431

Water and Fuel Systems Maintenance Apprentice



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CRAFT	LEVEL	MODULE	MODULE TITLE
Core	1	00102	Introduction to Construction Math
		00103	Introduction to Hand Tools
		00104	Introduction to Power Tools
		00109	Introduction to Material Handling

CRAFT	LEVEL	MODULE	MODULE TITLE
Plumbing	1	02101	Introduction to the Plumbing Profession
		02102	Plumbing Safety
		02103	Tools of the Plumbing Trade
		02104	Introduction to Plumbing Math
		02106	Plastic Pipe and Fittings
		02107	Copper Pipe and Fittings
		02109	Carbon Steel Pipe and Fittings
		02110	Introduction to Plumbing Fixtures
		02112	Introduction to Water Distribution Systems
Plumbing	2	02210-13	Basic Electricity



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

CRAFT	LEVEL	MODULE	MODULE TITLE
Sprinkler Fitting	1	18101	Occupational Overview: The Sprinkler Industry
		18104	CPVC Pipe and Fittings
		18105	Copper Tubing and Fittings
		18106	Underground Pipe
Sprinkler Fitting	2	18204	Shop Drawings

NCCER Credential Equivalency Alignment

Air Force: 3E451

Water and Fuel Systems Maintenance Journeyman



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CRAFT	LEVEL	MODULE	MODULE TITLE
Plumbing	1	02105	Introduction to Plumbing Drawings
		02111	Introduction to Drain, Waste, and Vent (DWV) Systems
Plumbing	2	02202-13	Reading Commercial Drawings
		02203-13	Structural Penetrations, Insulating, and Firestopping
		02204-13	Installing and Testing DWV Piping
		02205-13	Installing Roof, Floor and Area Drains
		02206-13	Installing and Testing Water Supply Piping
		02207-13	Types of Valves
		02208-13	Installing Fixtures and Valves
		02209-13	Installing Water Heaters
		02211-13	Fuel Gas Systems



CRAFT	LEVEL	MODULE	MODULE TITLE
Plumbing	3	02311-14	Service Plumbing
Plumbing	4	02408-14	Private Water Supply Well Systems

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

NCCER Credential Equivalency Alignment

Air Force: 3E471

Water and Fuel Systems Maintenance Craftsman



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CRAFT	LEVEL	MODULE	MODULE TITLE
Sprinkler Fitting	3	18303	Water Supplies
Sprinkler Fitting	4	18405	Procedures and Documentation

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
		44109	Resource Control
		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

NCCER Credential Equivalency Alignment

Air Force: E-1 or Higher

Airman





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

NCCER Credential Equivalency Alignment

Air Force: 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

NCCER Credential Equivalency Alignment

Air Force: 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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