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Office for Career and Technical Schools 10 North Senate Avenue, Suite SE 308 Indianapolis, IN 46204 OCTS@dwd.in.gov http://www.in.gov/dwd/2731.htm MADE IN AMERICA

CAREER PROGRAMS

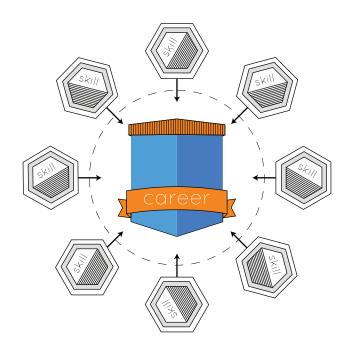
Career Programs are comprehensive, predefined programs created with our nationwide network of industry partners.

Career Programs contain 80 - 160 skills courses.

There are twelve Career Programs available and each can be completed in three months or less with 15 hours of study per week.

Career Programs are used predominantly by workforce and academic partners where certification of skills is important.

For more information about Career Programs, please download the Career Program Catalog



CERTIFICATION OPPORTUNITY

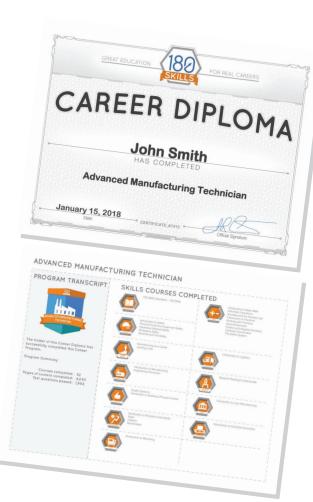
Graduates of Career Programs have the opportunity to earn a nationally recognized certification from 180 Skills and SpaceTec®.

SpaceTEC is the National Science Foundation's National Resource Center that promotes and educates candidates for technical employment.

Certification exams are offered through a nation-wide consortium of community and technical colleges, universities, business and industry organizations, and government agencies.







ADVANCED MANUFACTURING CAREER PROGRAMS

















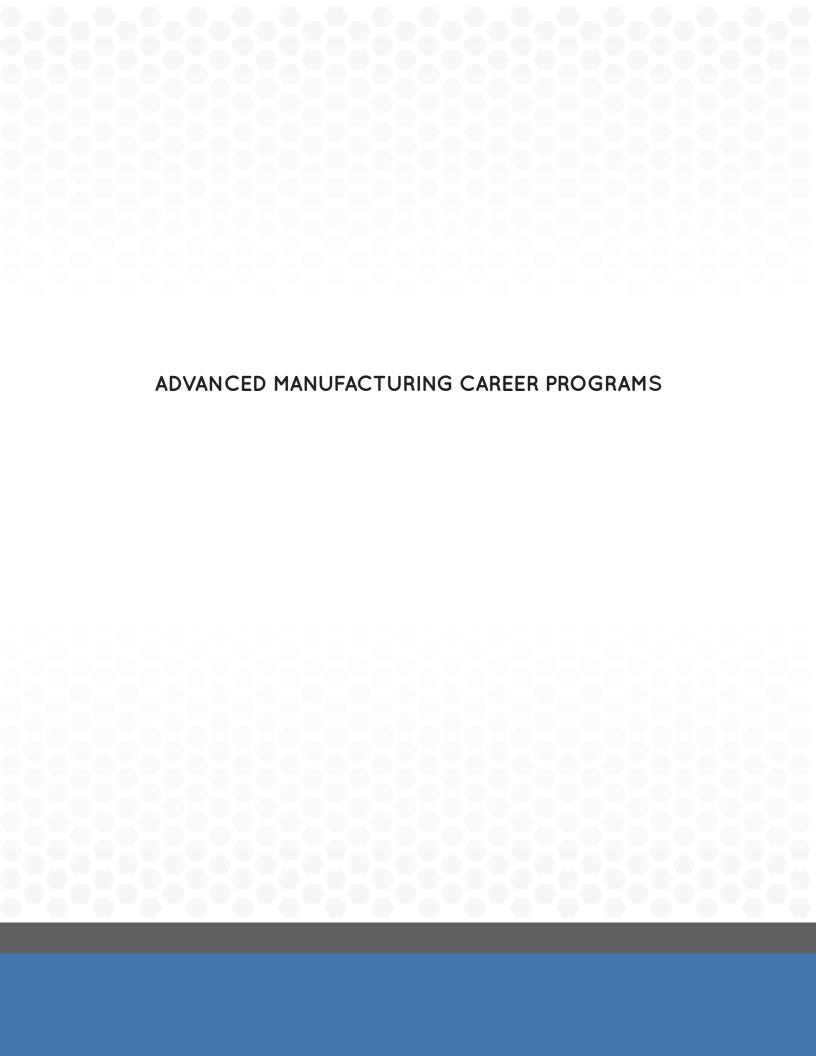


AEROSPACE MANUFACTURING CAREER PROGRAMS











ADVANCED MANUFACTURING TECHNICIAN

LAUNCH A CAREER AS A MAKER

Advanced manufacturing technicians perform many important tasks such as product assembly, machine operation, and quality assurance. Advanced manufacturing technicians play a key role in the manufacture of many commercial products.

Employment of advanced manufacturing technicians is projected to grow 4 percent from 2012 to 2022. Qualified applicants, including those with technical training and certification, should have the best job opportunities in the manufacturing sector, particularly in growing, high-technology industries, such as aerospace and electro-medical devices.*

INCOME OPPORTUNITIES

Salaries for entry-level manufacturing positions, such as assemblers and fabricators, ranges from \$36,020 to \$95.960.*

*Source: U.S. Bureau of Labor Statistics, 2016.

HIRING INDUSTRIES

Automotive
Aerospace
Civil infrastructure
Consumer products
Construction
Electrical equipment
Marine
Military
Materials processing
Medical devices

CAREER PROGRAM SUMMARY

Micro-credentials 25

Skills Courses 93

Time to complete 1.5 months*

* Completing three modules per day



O*NET job code: 17-3029.09

INTraining code: 7547





ADVANCED MANUFACTURING PRODUCTION TECHNICIAN

STUDY SKILLS MICRO CREDENTIAL	STUD SKILLS COURSE	Y SKILLS NUMBER
180 Skills Orientation	Greatest Day Ever	STU-1001
Using a Learning Management System	How to Take a Course	
Learning Online	Tips for Succeeding in Online Learning	STU-1004
CAREER DULCHIS MICRO CREDENTIAL	CAREER B	UILDING NUMBER
Manufacturing as a Career	Manufacturing - A Future Worth Exploring	CAR-2002 CAR-2003
MICRO CREDENTIAL	MANUFAC SKILLS COURSE	CTURING NUMBER
Introduction to Manufacturing	What is Advanced Manufacturing?	MEG-1001
	Manufacturing History and Technology From Ideas to Products From Design to Manufacturing Safety, Quality and the Environment in Manufacturing Measuring Success in Manufacturing Careers in Manufacturing	MFG-1002 MFG-1003 MFG-1004 MFG-1005
LOGISTICS MICRO CREDENTIAL	Manufacturing History and Technology From Ideas to Products From Design to Manufacturing Safety, Quality and the Environment in Manufacturing Measuring Success in Manufacturing Careers in Manufacturing	MFG-1002 MFG-1003 MFG-1004 MFG-1005
MICRO CREDENTIAL Introduction to Logistics Manufacturing & Logistics Game	Manufacturing History and Technology	MFG-1002MFG-1003MFG-1004MFG-1005MFG-1006MFG-1007 GISTICS NUMBERLOG-1001LOG-1002LOG-1004LOG-1005LOG-1006LOG-1007



MICRO CREDENTIAL	SKILLS COURSE	MATHEMATICS NUMBER
Basic Math	Introduction to Basic Math Arithmetic Operations	
Fractions and Decimals	Introduction to Fractions Working with Fractions Decimal Numbers	MTH-1005
Intermediate Math	Numbers and the Number Line	MTH-1007
HEALTH 0 SAFETY MICRO CREDENTIAL	SKILLS COURSE	HEALTH & SAFETY
Introduction to Safety	Introduction to OSHA Making Work a Safer Place Help! What to Do in an Emergency	SAF-1002
Personal Protective Equipment Safety	Personal Protective Equipment Eye and Face Protection Head Protection Foot and Leg Protection Hand and Arm Protection Body Protection Hearing Protection Respiratory Protection	SAF-1005 SAF-1006 SAF-1007 SAF-1008 SAF-1009 SAF-1010
Hazardous Material Safety	Hazardous Materials HazCom Hazardous Waste Hazard Material Storage	SAF-1013 SAF-1014
Workplace Safety	Work Area Safety Permit-Related Safety Fall Prevention Ladder Safety	SAF-1017 SAF-1018
Electrical and Fire Safety	Electrical Safety	SAF-1020





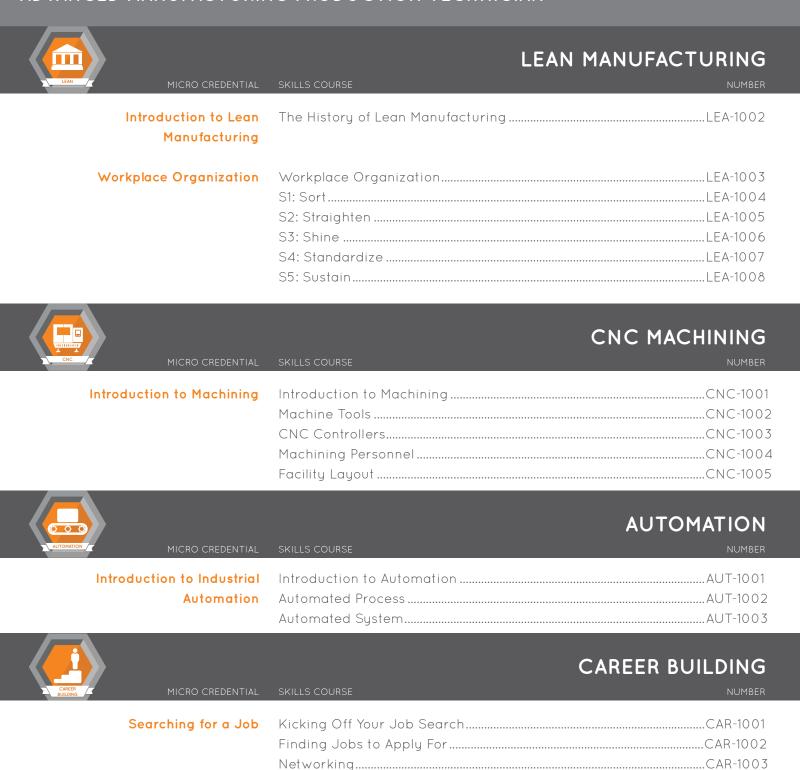
Lockout/Tagout.....SAF-1021

ADVANCED MANUFACTURING PRODUCTION TECHNICIAN

MICRO CREDENTIAL	SKILLS COURSE	MANUFACTURING NUMBER
Engineering Processes	The Engineering ProcessInformation Sharing	
QUALITY MICRO CREDENTIAL	SKILLS COURSE	QUALITY NUMBER
Quality Systems	Introduction to Quality ISO 9000 Standards Organizations Quality Organizations Basic Quality Roles and Responsibilities	QUA-1002 QUA-1003 QUA-1004
Introduction to Statistical Process Control	Introduction to SPC Probability and Variation The Control Chart	QUA-1012
ENGINEERING MICRO CREDENTIAL	ENGINE SKILLS COURSE	EERING DRAWINGS
Blueprint Reading Fundamentals	Introduction to Blueprints Engineering Drawing Terminology Engineering Drawing Views Engineering Drawing Lines Dimensions and Tolerances	DWG-1002 DWG-1003 DWG-1004
HEASUREMENT) MICRO CREDENTIAL	SKILLS COURSE	MEASUREMENT NUMBER
Precision Measurement I	Introduction to Precision InstrumentsRules	MEA-2002











Resumes and Job Applications

Completing an Employment Application......CAR-1004

ADVANCED MANUFACTURING PRODUCTION TECHNICIAN



CAREER BUILDING

MICRO CREDENTIAL	SKILLS COURSE	number
Interviewing	Understanding the Interview Process	
	Making a Positive Impression	
	Addressing Special Interview Concerns	
	After the Interview	CAR-1011
Keeping a Job	Surviving Your First Day on the Job	CAR-1012
	Turning a Job into a Career	CAR-1013







APPRENTICE TOOL MAKER

MAKE THE TOOLS USED BY MAKERS

This program was developed with input from industry partners to ensure that aerospace tool makers attain mastery in the art of creating aerospace tooling.

Apprentice tool makers analyze specifications, lay out metal stock, set up and operate machine tools, and fit and assemble parts to make and repair dies, cutting tools, jigs, fixtures, and gauges.

Students considering this program should work with an Employer Partner to secure an apprenticeship prior to enrolling.

INCOME OPPORTUNITIES

Salaries for Tool Makers ranges from \$31,200 to \$74,230. *

*Source: U.S. Bureau of Labor Statistics, May 2016

HIRING INDUSTRIES

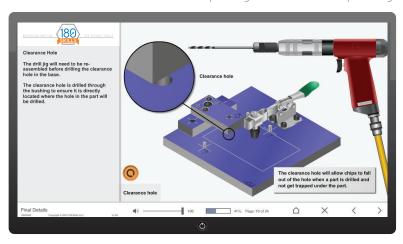
Air transport
Aircraft parts manufacturing
Guided missiles, space vehicles, and parts
Satellite communications
Search, detection, and navigation guidance
Space research and technology

CAREER PROGRAM SUMMARY

Micro-credentials 40 Skills Courses 150

Time to complete 2.5 months*

* Completing three modules per day

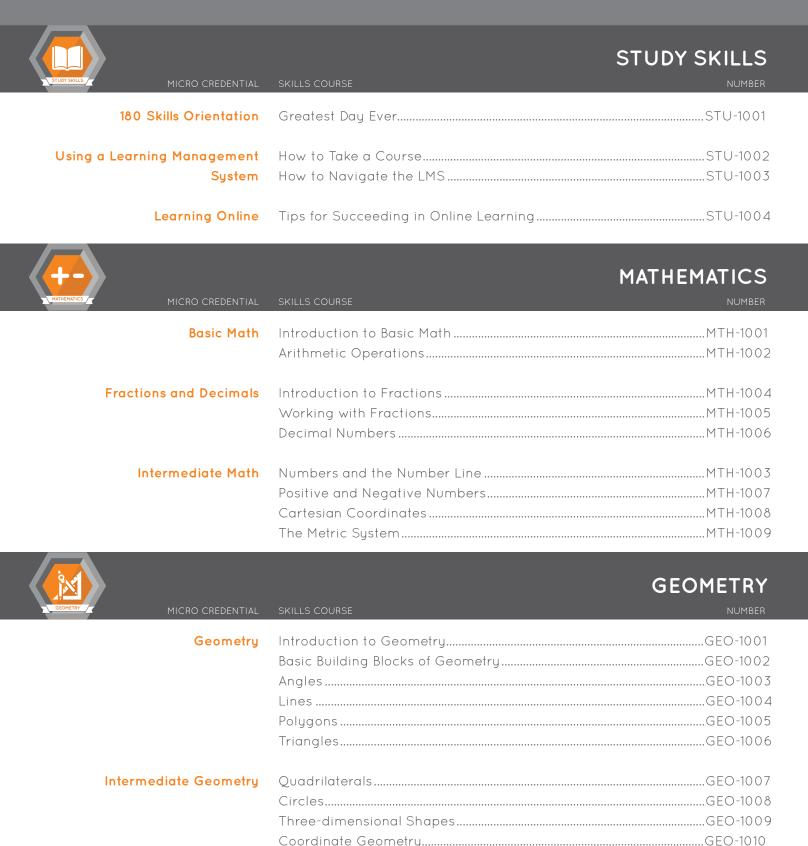


O*NET job code: 51-4111.00 INTraining code: 7692













Transformation Geometry......GEO-1011



HEALTH & SAFETY

	MICRO CREDENTIAL	SKILLS COURSE	NUMBER
In	troduction to Safety	Introduction to OSHA	SAF-1001
		Making Work a Safer Place	SAF-1002
		Help! What to Do in an Emergency	SAF-1003
	Personal Protective	Personal Protective Equipment	SAF-1004
	Equipment Safety	Eye and Face Protection	SAF-1005
		Head Protection	SAF-1006
		Foot and Leg Protection	SAF-1007
		Hand and Arm Protection	SAF-1008
		Body Protection	SAF-1009
		Hearing Protection	SAF-1010
		Respiratory Protection	SAF-1011
Hazar	dous Material Safety	Hazardous Materials	SAF-1012
		HazCom	SAF-1013
		Hazardous Waste	SAF-1014
		Hazard Material Storage	SAF-1015
	Workplace Safety	Work Area Safety	SAF-1016
		Permit-Related Safety	SAF-1017
		Fall Prevention	SAF-1018
		Ladder Safety	SAF-1019
Elect	rical and Fire Safety	Electrical Safety	SAF-1020
		Lockout/Tagout	SAF-1021
		Fire Safety	SAF-1022
		Fire Extinguishers	SAF-1023
Mate	erial Handling Safety	Material Handling Basics	
		Powered Industrial Trucks	SAF-1025
		Crane and Rigging Safety	SAF-1026
Tool	and Machine Safety	Hand Tool Safety	SAF-1027
		Power Tool Safety	SAF-1028
		Sheet Metal and Compressed Gas Safety	SAF-1029
		Machine Safety	SAF-1030





Safety Devices.....SAF-1031



ENGINEERING DRAWINGS

MICRO CREDENTIAL

Blueprint Reading Fundamentals	Introduction to Blueprints	DWG-1001
	Engineering Drawing Terminology	DWG-1002
	Engineering Drawing Views	DWG-1003
	Engineering Drawing Lines	
	Dimensions and Tolerances	
Advanced Blueprint Reading	Geometric Dimensions and Tolerances	DWG-2001
	Assemblies and Fits	DWG-2002
	Threads and Fasteners	DWG-2003
Geometric Dimensioning	Introduction to GD&T	DWG-3001
and Tolerancing	GD&T Terms and Symbols	DWG-3002
	Rules of GD&T	DWG-3003
	Geometric Tolerances	DWG-3004
	Datums	DWG-3005
	Form Tolerances	DWG-3006
	Profile Tolerances	DWG-3007
	Orientation Tolerances	DWG-3008
	Runout Tolerances	DWG-3009
	Location Tolerances	DWG-3010
9,2		MEASUREMENT



Precision Measurement I Introduction to Precision Instruments......MEA-2001 Rules MEA-2002 Calipers.....MEA-2003 Micrometers MEA-2004 Precision Measurement II Small Hole Gauges.....MEA-2005

Dial IndicatorsMEA-2006 Bore GaugesMEA-2007 Height GaugesMEA-2008 Go/NoGo GaugesMEA-2009 Test Indicators MEA-2010

Surface Roughness Comparators......MEA-2015

Attribute Gauges Go/NoGo Thread Gauges.....MEA-2011 Thickness and Radius Gauges.....MEA-2013 Squares and ProtractorsMEA-2014





NUMBER



MEASUREMENT

MICRO CREDENTIAL SKILLS COURSE

NUMBER

Precision Measurement III	Adjustable Parallels	MEA-2016
	Surface Plates	MEA-2017
	Optical Comparators	MEA-2018
	Optical Center Finders	MEA-2019



FASTENERS

Bolts, Screws, and WashersFAS-2003 **Fasteners**



POWER TOOLS

Pistol Grip DrillsPOW-2001 **Hand Power Tools** Drilling Techniques......POW-2002

Winslow Drills.....POW-2003 Rivet Installation Tools......POW-2005

Stationary Power Tools

Introduction to Stationary Power Tools......POW-2006 Disc and Belt Sanders......POW-2007 Arbor Press POW-2010 Bench Grinder......POW-2011 Operating a Table Saw.....POW-2013



HAND TOOLS

Hand Tools

Files, Hand Reamers, and Lapping Tools.....HAN-2001 Hammers, Punches, and Chisels......HAN-2002 Pliers and Ratchets......HAN-2003 Scribes, Optical Center Finders, and Drill BlocksHAN-2004







CUTTING TOOLS



AEROSPACE MANUFACTURING

MICRO CREDENTIAL

SKILLS COURSE

NUMBER

Basic Drilling and Riveting

Countersinking and Riveting Project

TOOL MAKING

MICRO CREDENTIAI

KILLS COURSE

NILIMBED

Tooling Capstone Project

Need for Tools	TOL-3001
The Process	TOL-3002
Permanent Assemblies	TOL-3003
Critical Features	TOL-3004
Final Details	TOL-3005







COMMUNICATION

MICRO CREDENTIAL SKILLS COURSE NUMB

Communicating with Others	Introduction to Communication	COM-1001
	Effective Communication	COM-1002
	Verbal Communication	COM-1003
	Written Communication	COM-1004
	Nonverbal Communication	COM-1005
	Listening Skills	COM-1006
	Workplace Communication	COM-1007



CAREER BUILDING

BUILDING	MICRO CREDENTIAL	SKILLS COURSE	NUMBER
			0.15.40.04
	Searching for a Job	Kicking Off Your Job Search	CAR-1001
		Finding Jobs to Apply For	CAR-1002
		Networking	CAR-1003
Resume	es and Job Applications	Completing an Employment Application	
		Creating Your Resume	CAR-1005
		Crafting a Cover Letter	CAR-1006
	to keep the story		CAD 1007
	Interviewing	Understanding the Interview Process	
		Making a Positive Impression	
		Responding to Interview Questions	
		Addressing Special Interview Concerns	CAR-1010
		After the Interview	CAR-1011
			0.15.4040
	Keeping a Job	3	
		Turning a Job into a Career	CAR-1013







CNC LATHE PRODUCTION TECHNICIAN

MAKE THE WORLD TURN

Computer numerical control (CNC) lathe production technicians transform raw materials into finished products used in commercial, automotive, medical, and aerospace products. CNC lathe production technicians produce parts that range from simple bolts of steel to titanium bone screws for orthopedic implants.

CNC lathe production technicians work from blueprints, or computer-aided design (CAD), and computer-aided manufacturing (CAM) files. They set up and operate CNC machine tools, monitor the feed rate and speed of machines, and measure, examine, and test completed products for defects.

INCOME OPPORTUNITIES

Salaries for CNC Machining Center Production Technicians ranges from \$25,000 to \$57,750.*

*Source: U.S. Bureau of Labor Statistics, May 2016

HIRING INDUSTRIES

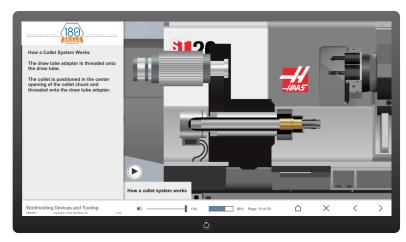
Automotive
Aerospace
Consumer products
Electrical equipment
Marine
Military
Medical devices

CAREER PROGRAM SUMMARY

Micro-credentials 36
Skills Courses 122

Time to complete 2.5 months*

* Completing three modules per day



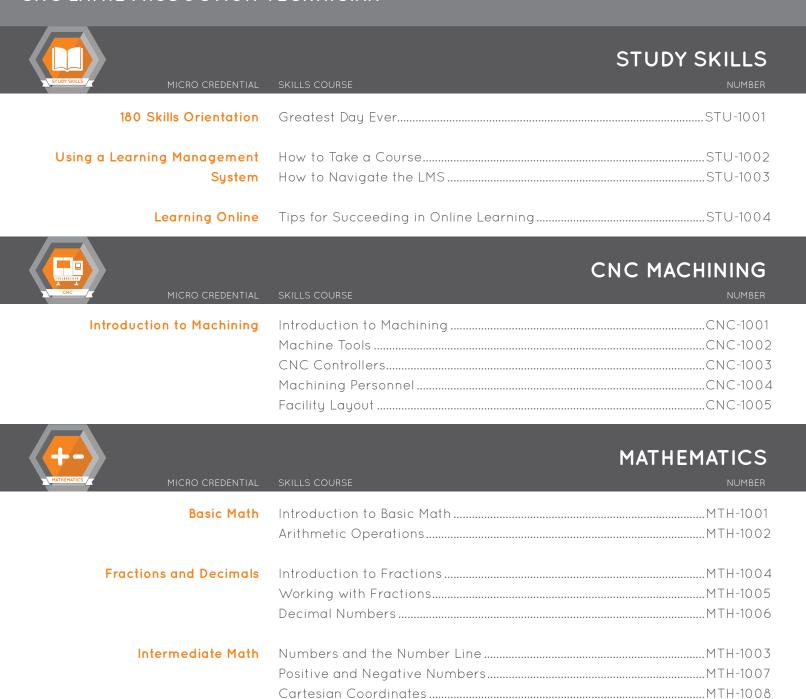
O*NET job code: 51-4011.00

INTraining code: 7673













The Metric System......MTH-1009



GEOMETRY

MICRO CREDENTIAL

Intermediate Geometry

Geometry

KILLS COURSE

NUMBER



HEALTH & SAFETY

1ICRO CREDENTIAL SKILLS COUR

NUMBER

Introduction to Safety	Introduction to OSHA Making Work a Safer Place Help! What to Do in an Emergency	SAF-1002
Personal Protective Equipment Safety	Personal Protective Equipment Eye and Face Protection Head Protection Foot and Leg Protection	SAF-1005
	Hand and Arm Protection	SAF-1008 SAF-1009 SAF-1010





Workplace Safety



HEALTH & SAFETY

SKILLS COURSE	NUMBER
Hazardous Materials	SAF-1012
HazCom	SAF-1013
Hazardous Waste	SAF-1014
Hazard Material Storage	SAF-1015
Work Area Safety	SAF-1016
Fall Prevention	SAF-1018
Electrical Safety	SAF-1020
Lockout/Tagout	SAF-1021
Hand Tool Safety	SAF-1027
Power Tool Safety	SAF-1028
Machine Safetu	SAF-1030



ENGINEERING DRAWINGS

Blueprint Reading Fundamentals	Introduction to Blueprints	DWG-1001
	Engineering Drawing Terminology	
	Engineering Drawing Views	DWG-1003
	Engineering Drawing Lines	DWG-1004
	Dimensions and Tolerances	DWG-1005
Advanced Blueprint Reading	Geometric Dimensions and Tolerances	



MEASUREMENT

Precision Measurement I	Introduction to Precision Instruments	MEA-2001
	Rules	MEA-2002
	Calipers	MEA-2003
	Micrometers	MEA-2004
Precision Measurement II	Small Hole Gauges	MEA-2005
	Dial Indicators	MEA-2006
	Bore Gauges	MEA-2007
	Height Gauges	MEA-2008
	Go/NoGo Gauges	MEA-2009
	Test Indicators	MEA-2010







MICRO CREDENTIAL	SKILLS COURSE	1EASUREMENT NUMBER
Attribute Gauges	Go/NoGo Thread Gauges Attribute Gauges Thickness and Radius Gauges Squares and Protractors Surface Roughness Comparators	MEA-2012 MEA-2013 MEA-2014
Precision Measurement III	Adjustable Parallels Surface Plates Optical Comparators	MEA-2017
MICRO CREDENTIAL	SKILLS COURSE	MATERIALS NUMBER
Metals and Materials	Introduction to Metals Ferrous Metals Nonferrous Metals Heat Treatment of Metals	MAT-2002 MAT-2003
MICRO CREDENTIAL	CN SKILLS COURSE	IC MACHINING NUMBER
CNC Horizontal Lathe	Components of a CNC Lathe Movements of a CNC Lathe Workholding Devices and Tooling for a CNC Lathe The CNC Controller for a CNC Lathe Auxiliary Systems for a CNC Lathe	CNC-2002 CNC-2003 CNC-2004
CNC Horizontal Lathe Applications	Maintenance Tasks for a CNC Lathe Power on the CNC Lathe Move the Axes by Rotating the Jog Handle	CNC-4002 CNC-4003 CNC-4004 e CNC-4005 CNC-4006 CNC-4007





Power Off the CNC LatheCNC-4009



CUTTING TOOLS

Lubricants and Cutting Fluids	Cutting FluidsCUT-2008
Cutting Tools for Metalworking	Cutting Tool Materials
Threads, Taps and Dies	Threads



CNC MACHINING

CNC Lathe Programs	CNC Programming Procedure for a CNC LatheCNC-4010
	CNC Program Structure for a CNC LatheCNC-4011
	CNC Addresses for a CNC Lathe
	CNC Lathe Commands
	Organizing a CNC Program for a CNC LatheCNC-4014











CAREER BUILDING

CAREER BUILDING MICRO CREDENTIAL	SKILLS COURSE	NUMBER
Searching for a Job	Kicking Off Your Job Search	CAR-10.01
	Finding Jobs to Apply For	
	Networking	
Resumes and Job Applications	Completing an Employment Application	CAR-1004
	Creating Your Resume	
	Crafting a Cover Letter	CAR-1006
Interviewing	Understanding the Interview Process	CAR-1007
	Making a Positive Impression	CAR-1008
	Responding to Interview Questions	CAR-1009
	Addressing Special Interview Concerns	CAR-1010
	After the Interview	CAR-1011
Keeping a Job	Surviving Your First Day on the Job	
	Turning a Job into a Career	CAR-1013







CNC MACHINING CENTER PRODUCTION TECHNICIAN

MACHINE THE WORLD

Computer numerical control (CNC) machining center production technicians transform raw materials into finished parts used in commercial, automotive, medical, and aerospace products. CNC machining center production technicians produce parts that range from simple bolts of steel to titanium bone screws for orthopedic implants.

CNC machining center production technicians work from blueprints, or computer-aided design (CAD), and computer-aided manufacturing (CAM) files. They set up and operate CNC machine tools, monitor the feed rate and speed of machines, and measure, examine, and test completed products for defects.

INCOME OPPORTUNITIES

Salaries for CNC Machining Center Production Technicians ranges from \$25,000 to \$57,750.*

*Source: U.S. Bureau of Labor Statistics, May 2016

HIRING INDUSTRIES

Automotive
Aerospace
Consumer products
Electrical equipment
Marine
Military
Medical devices

CAREER PROGRAM SUMMARY

Micro-credentials 36 Skills Courses 122

Time to complete 2.5 months*

* Completing three modules per day



O*NET job code: 51-4011.00

INTraining code: 7682







CNC MACHINING CENTER PRODUCTION TECHNICIAN

STUDY SKILLS MICRO CREDENTIAL	SKILLS COURSE	STUDY SKILLS NUMBER
180 Skills Orientation	Greatest Day Ever	STU-1001
Using a Learning Management System	How to Take a Course How to Navigate the LMS	
Learning Online	Tips for Succeeding in Online Learning	STU-1004
MICRO CREDENTIAL	SKILLS COURSE	CNC MACHINING
Introduction to Machining	Introduction to Machining Machine Tools CNC Controllers Machining Personnel Facility Layout	CNC-1002 CNC-1003 CNC-1004
MICRO CREDENTIAL	SKILLS COURSE	MATHEMATICS NUMBER
Basic Math	Introduction to Basic Math Arithmetic Operations	
Fractions and Decimals	Introduction to Fractions	MTH-1005
Intermediate Math	Numbers and the Number Line Positive and Negative Numbers Cartesian Coordinates	MTH-1007





The Metric System......MTH-1009

Geometry

Intermediate Geometry



GEOMETRY

MICRO CREDENTIAL	SKILLS COURSE	NUMB

Introduction to Geom	etry	GEO-1001
Basic Building Blocks	of Geometry	GEO-1002
Polygons		GEO-1005
Triangles		GEO-1006
Quadrilaterals		GEO-1007
Circles		GEO-1008
Three-dimensional Sh	napes	GEO-1009
	· 	
	netru	

Respiratory Protection......SAF-1011



HEALTH & SAFETY

Introduction to Safety	Introduction to OSHA Making Work a Safer Place Help! What to Do in an Emergency	SAF-1002
Personal Protective	Personal Protective Equipment	SAF-1004
Equipment Safety	Eye and Face Protection	SAF-1005
	Head Protection	SAF-1006
	Foot and Leg Protection	SAF-1007
	Hand and Arm Protection	SAF-1008
	Body Protection	SAF-1009
	Hearing Protection	SAF-1010

















CNC MACHINING CENTER PRODUCTION TECHNICIAN



CUTTING TOOLS

ICRO CREDENTIAL SKILLS COURS

NUMBER

Lubricants and Cutting Fluids	Cutting FluidsCUT-2008
Cutting Tools for Metalworking	Cutting Tool Materials
Threads, Taps and Dies	Threads



CNC MACHINING

ICRO CREDENTIAL SKILLS COURS

......

CNC Machining Center Programs	NC Programming Procedure for a CNC Machining CenterCNC-4024	
	CNC Program Structure for a CNC Machining CenterCNC-4025	
	CNC Addresses for a CNC Machining CenterCNC-4026	
	CNC Machining Center CommandsCNC-4027	
	Organizing a CNC Program for a CNC Machining CenterCNC-4028	

CNC Machine Lobricant

CNC Machine Lubricants CNC Machine Lubricants......CNC-2011





CNC MACHINING CENTER PRODUCTION TECHNICIAN



CAREER BUILDING

CAREER BUILDING	MICRO CREDENTIAL	SKILLS COURSE	NUMBER
	Searching for a Job	Kicking Off Your Job Search Finding Jobs to Apply For Networking	CAR-1002
Resumes	s and Job Applications	Completing an Employment Application Creating Your Resume Crafting a Cover Letter	CAR-1005
	Interviewing	Understanding the Interview Process	CAR-1008 CAR-1009 CAR-1010
	Keeping a Job	Surviving Your First Day on the Job Turning a Job into a Career	







MAKE THE WORLD LIGHTER AND STRONGER

The use of composite materials in manufacturing is expanding quickly. Composites are now used in automotive, aerospace, medical devices and sports equipment. The benefits of light weight and strength make the applications of composite materials endless.

Composite manufacturing and repair technicians manufacture products using layers of carbon fiber, fiberglass, or other composite fabrics. Composite manufacturing requires attention to detail and good manual dexterity.

INCOME OPPORTUNITIES

Salaries for Composites Manufacturing and Repair Technicians ranges from \$21,030 to \$47,670.*

*Source: U.S. Bureau of Labor Statistics, May 2016

HIRING INDUSTRIES

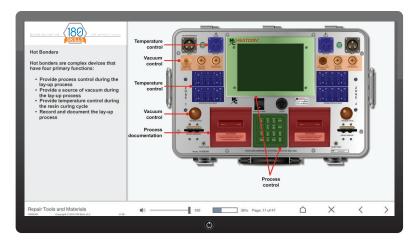
Automotive
Aerospace
Consumer products
Construction
Marine
Military
Medical devices

CAREER PROGRAM SUMMARY

Micro-credentials 26
Skills Courses 112

Time to complete 2.5 months*

* Completing three modules per day



O*NET job code: 51-2091 INTraining code: 7688







STUDY SKILLS MICRO CREDENTIAL	SKILLS COURSE	STUDY SKILLS NUMBER
180 Skills Orientation	Greatest Day Ever	STU-1001
Using a Learning Management System	How to Take a Course How to Navigate the LMS	
Learning Online	Tips for Succeeding in Online Learning	STU-1004
MICRO CREDENTIAL	SKILLS COURSE	MATHEMATICS NUMBER
Basic Math	Introduction to Basic Math Arithmetic Operations	
Fractions and Decimals	Introduction to Fractions Working with Fractions Decimal Numbers	MTH-1005
Intermediate Math	Numbers and the Number Line Positive and Negative Numbers Cartesian Coordinates The Metric System	MTH-1007
HEALTH 8 SAFETY MICRO CREDENTIAL	SKILLS COURSE	HEALTH & SAFETY
Introduction to Safety	Introduction to OSHA Making Work a Safer Place Help! What to Do in an Emergency	SAF-1002
Personal Protective Equipment Safety	Personal Protective Equipment	SAF-1005 SAF-1006 SAF-1007 SAF-1008 SAF-1009 SAF-1010











Micrometers MEA-2004



POWER TOOLS

IICRO CREDENTIAL SKILLS COUR

NUMBER

Stationary Power Tools

Introduction to Stationary Power Tools	POW-2006
Disc and Belt Sanders	POW-2007
Drill Press	POW-2008
Band Saw	POW-2009
Arbor Press	POW-2010
Bench Grinder	POW-2011
Table Saw	POW-2012
Operating a Table Saw	POW-2013



COMPOSITES

MICRO CREDENTIAL SKILLS COURS

NUMBER

Industrian de Commonidas	Declaration of the state of Caranacitas	CMD 10.01
Introduction to Composites	Background and History of Composites	
	Composite Industries and Products	
	Advantages and Disadvantages of Composites	CMP-1003
	Safety and Hazards of Composites	CMP-1004
Composites Manufacturing	Facility Layout	CMP-1005
Facilities	Non-controlled Contamination Areas	
	Lay-up Area	
	Curing Area	
Materials Used in Composites	Fiber Based Composites	CMP-2001
Manufacturing	Fibers, Tapes and Fabrics	
	Glass and Carbon Fibers	
	Matrix Types and Properties	CMP-2004
	Curing Process	CMP-2005
	Honeycomb Core Materials	CMP-2006
	Material Compatibility	CMP-2007
	Galvanic Reactivity	CMP-2008
	Core Potting Compounds	
Composite Material Storage	Fiber Material Storage	CMP-2010
	Controlled Contamination Areas	







COMPOSITES

MICRO CREDENTIAL Tools Used In Composite Manufacturing Forming Tool CleaningCMP-2016 Overhead Laser System......CMP-2019 **Composite Material Kitting** Kitting with a sheeter......CMP-3001 Kitting by HandCMP-3002 Kitting with Automated MachinesCMP-3003 Composite Part Layup and Ply Balancing......CMP-3004 Material splicingCMP-3005 Bagging Wrinkles and Gaps......CMP-3006 Pockets and Voids......CMP-3007 Radius Filler Fabrication by HandCMP-3008 Bagging and Lay-up EquipmentCMP-3010 Composite Layup Projects Unidirectional 4 Ply Lay-up......CMP-4001 Carbon 8 Ply Lay-up with CoreCMP-4002 Fiberglass 6 Ply Wet Lay-up......CMP-4003 **Inspecting Composite Parts**





COMPOSITES MANUFACTURING & REPAIR TECHNICIAN



CAREER BUILDING

CAREER BUILDING MICRO CREDENTIAL	SKILLS COURSE	NUMBER
Searching for a Job	Kicking Off Your Job Search Finding Jobs to Apply For Networking	CAR-1002
Resumes and Job Applications	Completing an Employment Application Creating Your Resume Crafting a Cover Letter	CAR-1005
Interviewing	Understanding the Interview Process Making a Positive Impression Responding to Interview Questions Addressing Special Interview Concerns After the Interview	CAR-1008 CAR-1009 CAR-1010
Keeping a Job	Surviving Your First Day on the Job Turning a Job into a Career	







DRAFTING & CAD TECHNICIAN

DRAW THE WORLD

Drafting and CAD technicians use software to convert the designs of engineers and architects into technical drawings and plans. Workers specialize in architectural, civil, electrical, or mechanical drafting and use technical drawings to help design everything from microchips to skyscrapers.

As a drafting and CAD technician, you can launch a rewarding career in s everal industries, where job demand is high.

This program requires additional external training in CAD software.

INCOME OPPORTUNITIES

Salaries for Drafting & CAD Technicians ranges from \$33,020 to \$85,920 .*

*Source: U.S. Bureau of Labor Statistics, May 2016

HIRING INDUSTRIES

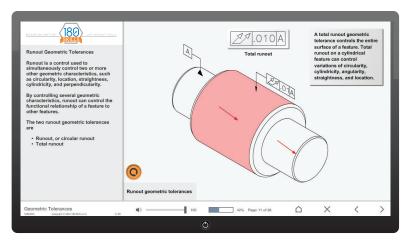
Architecture
Automotive
Aerospace
Civil infrastructure
Consumer products
Construction
Electrical equipment
Marine
Military

CAREER PROGRAM SUMMARY

Micro-credentials 24 Skills Courses 98

Time to complete 2.0 months*

* Completing three modules per day

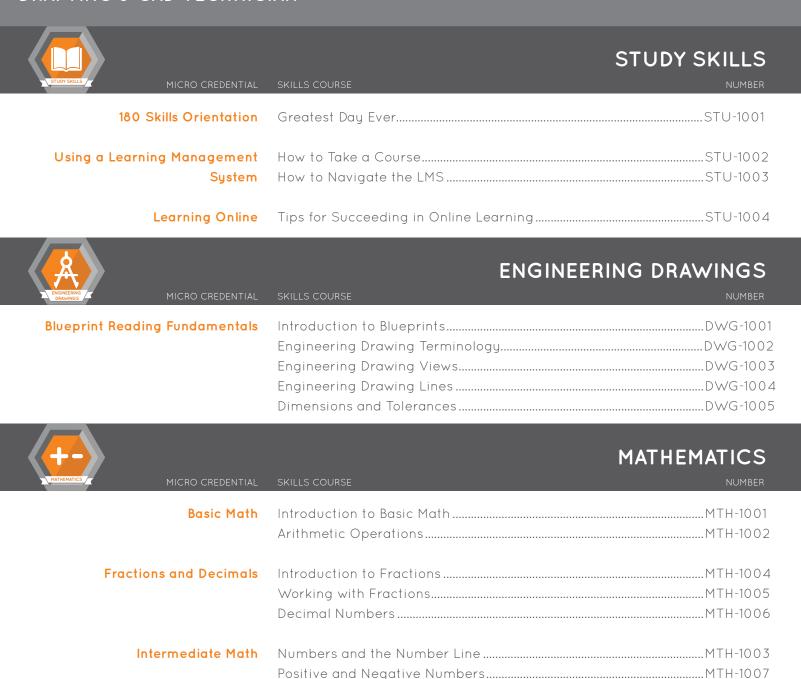


O*NET job code: 17-3013.00

INTraining code: 7553













GEOMETRY

MICRO	CREDENTIAL	SKILLS COURSE

Geometry

Intermediate Geometry

NUMBER

Transformation Geometry..................GEO-1011



HEALTH & SAFETY

MICRO CREDENTIAL SKIL

SKILLS COURSE

NUMBER

Introduction to Safety	Introduction to OSHA	SAF-1001
	Making Work a Safer Place	SAF-1002
	Help! What to Do in an Emergency	SAF-1003
Personal Protective	Personal Protective Equipment	SAF-1004
Equipment Safety	Eye and Face Protection	SAF-1005
	Head Protection	SAF-1006
	Foot and Leg Protection	SAF-1007
	Hand and Arm Protection	
	Body Protection	SAF-1009
	Hearing Protection	SAF-1010
	Respiratory Protection	SAF-1011







HEALTH & SAFETY

-	
HEALTH 9 SAFETY	F

Hazardous Material Safety	Hazardous Materials	
	Hazard Material Storage	SAF-1014
Workplace Safety	Work Area SafetyFall Prevention	



QUALITY

MICRO CREDENTIAL	SKILLS COURSE	- NUMBER
Quality Systems	Introduction to Quality	
	ISO 9000	
	Standards Organizations	QUA-1003
	Quality Organizations	QUA-1004
	Basic Quality Roles and Responsibilities	QUA-1005
Quality Management	Quality Concepts	QUA-1006
	The Cost of Quality	QUA-1007
	Managing Quality	QUA-1008
	Quality Documents	QUA-1009
	Corrective and Preventive Action	QUA-1010
Introduction to Statistical	Introduction to SPC	QUA-1011
Process Control	Probability and Variation	QUA-1012
	The Control Chart	QUA-1013
Advanced Statistical	Control Chart Analysis	QUA-2001
Process Control	Process Capability	QUA-2002
	Problem Solving Tools	QUA-2003
	Problem Solving	QUA-2004
	Process Capability Problem Solving Tools	QUA-2002 QUA-2003







ENGINEERING DRAWINGS

ENGINEERING DRAWINGS

Advanced Blueprint Reading	Geometric Dimensions and Tolerances	
	Threads and Fasteners	
Geometric Dimensioning	Introduction to GD&T	
and Tolerancing	GD&T Terms and Symbols	DWG-3002
	Rules of GD&T	DWG-3003
	Geometric Tolerances	
	Datums	DWG-3005
	Form Tolerances	DWG-3006
	Profile Tolerances	
	Orientation Tolerances	DWG-3008
	Runout Tolerances	DWG-3009
	Location Tolerances	DWG-3010



LEAN MANUFACTURING

Introduction to Lean Manufacturing

The History of Lean ManufacturingLEA-1002

Workplace Organization

Workplace Organization.....LEA-1003 S1: SortLEA-1004 S2: StraightenLEA-1005 S3: ShineLEA-1006 S4: StandardizeLEA-1007 S5: Sustain.....LEA-1008



COMMUNICATION

Technical Writing

Introduction to Technical WritingCOM-2004 Successful Documentation.......COM-2005







CAREER BUILDING

CAREER MICRO CREDENTIAL	SKILLS COURSE	NUMBER
Searching for a Job	Kicking Off Your Job Search	CAR-1001
	Finding Jobs to Apply For	
	Networking	
Resumes and Job Applications	Completing an Employment Application	CAR-1004
	Creating Your Resume	
	Crafting a Cover Letter	CAR-1006
Interviewing	Understanding the Interview Process	CAR-1007
	Making a Positive Impression	CAR-1008
	Responding to Interview Questions	CAR-1009
	Addressing Special Interview Concerns	CAR-1010
	After the Interview	CAR-1011
Keeping a Job	Surviving Your First Day on the Job	
	Turning a Job into a Career	CAR-1013







MECHATRONICS & INDUSTRIAL AUTOMATION TECHNICIAN

MAINTAIN THE WORLD

Mechatronics is the convergence of mechanical, electronic, control, and software engineering. Also known as electro-mechanical maintenance technicians, mechatronics and industrial automation technicians combine knowledge of mechanical technology with knowledge of electrical circuits. They install, troubleshoot, repair, and upgrade electronic and computer-controlled mechanical systems, such as robotic assembly machines.

Mechatronics and industrial automation technicians work closely with electrical and mechanical engineers. They work primarily in manufacturing, engineering services, and research and development.

INCOME OPPORTUNITIES

Salaries for Mechatronics & Industrial Automation Technicians ranges from \$31,930 to \$80,160 .*

*Source: U.S. Bureau of Labor Statistics, May 2016

HIRING INDUSTRIES

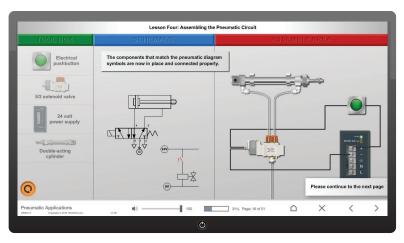
Automotive
Aerospace
Building maintenance
Civil infrastructure
Consumer products
Construction
Electrical equipment
Logistics and distribution
Manufacturing
Materials processing

CAREER PROGRAM SUMMARY

Micro-credentials 32 Skills Courses 129

Time to complete 2.5 months*

* Completing three modules per day



O*NET job code: 49-2094.00

INTraining code: 7687







MECHATRONICS & INDUSTRIAL AUTOMATION TECHNICIAN

STUDY SKILLS MICRO CREDENTIAL	SKILLS COURSE	STUDY SKILLS
180 Skills Orientation	Greatest Day Ever	STU-1001
Using a Learning Management System	How to Take a Course How to Navigate the LMS	
Learning Online	Tips for Succeeding in Online Learning	STU-1004
AUTOMATION MICRO CREDENTIAL	SKILLS COURSE	AUTOMATION NUMBER
Introduction to Industrial Automation	Introduction to Automation	AUT-1002
MICRO CREDENTIAL	SKILLS COURSE	MATHEMATICS NUMBER
Basic Math	Introduction to Basic Math Arithmetic Operations	
Fractions and Decimals	Introduction to Fractions Working with Fractions Decimal Numbers	MTH-1005
Intermediate Math	Numbers and the Number Line Positive and Negative Numbers Cartesian Coordinates The Metric System	MTH-1007 MTH-1008
HEALTH 6 SAFETY MICRO CREDENTIAL	SKILLS COURSE	HEALTH & SAFETY
Introduction to Safety	Introduction to OSHA Making Work a Safer Place Help! What to Do in an Emergency	SAF-1002







HEALTH & SAFETY

MICRO CREDENTIAL **Personal Protective Equipment Safety** Eye and Face Protection......SAF-1005 Head Protection.....SAF-1006 Hand and Arm ProtectionSAF-1008 Respiratory Protection......SAF-1011 Hazardous Material Safety Hazardous Materials......SAF-1012 Hazardous Waste......SAF-1014 Hazard Material Storage......SAF-1015 Workplace Safety Work Area Safety.....SAF-1016 Fall Prevention......SAF-1018 Ladder Safety.....SAF-1019 Electrical and Fire Safety Lockout/Tagout.....SAF-1021 Fire SafetySAF-1022 Tool and Machine Safety Hand Tool Safety.....SAF-1027 Sheet Metal and Compressed Gas Safety......SAF-1029 Safety DevicesSAF-1031







PNEUMATICS

Introduction to Pneumatics Introduction to Pneumatics Pneumatic Systems PNE-1002 The Properties of Gases Air Compression and Distribution - Part One PNE-1002 Air Compression and Distribution - Part Two PNE-1002 Components of a Pneumatic System Compressed Air Treatment PNE-200 Directional Control Valves PNE-200 Vacuum Technology PNE-200 Measuring Pneumatic Variables PNE-200	MICRO CREDENTIAL	SKILLS COURSE	NUMBER
System Pneumatic Actuators	Introduction to Pneumatics	Pneumatic Systems	E-1002 E-1003 E-1004
	•	Pneumatic Actuators PNE Directional Control Valves PNE Vacuum Technology PNE	E-2002 E-2003 E-2004
Pneumatic Applications Pneumatic ApplicationsPNE-300	Pneumatic Applications	Pneumatic ApplicationsPNE	E-3001



ELECTRICAL

Introduction to Electricity Production of Electricity......ELE-1001 Transmission and Distribution of Electricity.....ELE-1002 Uses of Electricitu......ELE-1003 Atomic StructureELE-1004 Electrical Circuits.....ELE-1005 Electrical Current.....ELE-1006 Voltage ELE-1007 Electrical PowerELE-1008 Resistance.....ELE-1009 Ohm's Law......ELE-1010 **Electrical Measurement** Electrical Measurement and Unit Conversion......ELE-2019 Conversion **DC** Electricity Direct Current.....ELE-1012 Batteries ELE-1013 Circuit AnalysisELE-1014 ElectromagnetismELE-1015 **AC Electricity** AC Waveform GenerationELE-1016 Electromagnetic DevicesELE-1017 TransformersELE-1018 Capacitors......ELE-1019







ELECTRICAL

ELECTRICAL MICRO CREDENTIAL	SKILLS COURSE	NUMBER
Solid State Electricity	Semiconductors Solid State Devices	
Introduction to Wiring	Wires, Connectors, and Circuit Protection	
Introduction to Electric Motors	DC Motors	ELE-2004
Electrical Connectors	Electrical Connectors and Fasteners	ELE-2006
Sensor Technology	Introduction to Sensors Technology	ELE-2013 ELE-2014 ELE-2015 ELE-2016



HYDRAULICS

MICRO CREDENTIAL	SKILLS COURSE	NUMBER
Introduction to Hydraulics	Introduction to Hydraulics	HYD-1002
•	Hydraulic Actuators	HYD-2002 HYD-2003





MECHATRONICS & INDUSTRIAL AUTOMATION TECHNICIAN



MICRO CREDENTIAL

KILLS COLIBSE

PLC

NUMBER

Programmable Logic Controllers

Introduction to Programmable Controllers	PLC-1001
Introduction to Digital Electronics	PLC-1002
Types and Functions of Programmable Controllers	PLC-2001
General Structure of PLC	PLC-2002
Physical Integration of the PLC	PLC-2003
Internal Structure of the CPU	PLC-2004
Basic Concepts of PLC Programming	PLC-2005
Common PLC Applications	PLC-2006



AUTOMATION

MICRO CREDENTIAL

SKILLS COURSE

NII INABED

Process Controls

Introduction to Process Controls	AUT-2001
Process Control Systems	AUT-2002
Set Point/Comparator	AUT-2003
Controller (PID Control)	AUT-2004
Multivariate Processes	AUT-2005



ROBOTICS

MICRO CREDENTIAL

SKILLS COURSE

NIIMBED

Robotics

ROB-1001
ROB-1002
ROB-2001
ROB-2002
ROB-2003
ROB-2004
ROB-2005









CAREER BUILDING

CAREER BUILDING MICRO CREDENTIAL	SKILLS COURSE	NUMBER
Searching for a Job	Kicking Off Your Job Search	CAR-1001
	Finding Jobs to Apply For	
	Networking	
Resumes and Job Applications	Completing an Employment Application	CAR-1004
	Creating Your Resume	
	Crafting a Cover Letter	CAR-1006
Interviewing	Understanding the Interview Process	CAR-1007
	Making a Positive Impression	CAR-1008
	Responding to Interview Questions	CAR-1009
	Addressing Special Interview Concerns	CAR-1010
	After the Interview	CAR-1011
Keeping a Job	Surviving Your First Day on the Job	
	Turning a Job into a Career	CAR-1013







QUALITY ASSURANCE TECHNICIAN

MAKE THE WORLD EXCELLENT

When products like cell phones, computers or automobiles leave the factory, it's the quality assurance technician who makes sure they work. Also known as inspectors or testers, quality assurance technicians work on a wide range of challenging projects across multiple industries.

Critical to the success of any product development team, they make a difference. Quality assurance technicians reduce the cost of production, decrease maintenance expenses, and increase customer safety and satisfaction.

INCOME OPPORTUNITIES

Salaries for Quality Assurance Technicians ranges from \$22,530 to \$63,590 .*

*Source: U.S. Bureau of Labor Statistics, May 2016

HIRING INDUSTRIES

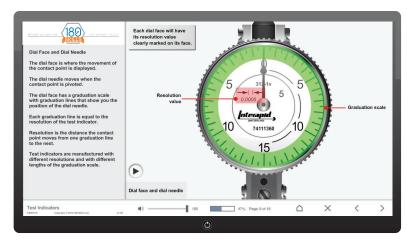
Automotive
Aerospace
Building maintenance
Civil infrastructure
Consumer products
Construction
Electrical equipment
Logistics and distribution
Manufacturing
Materials processing

CAREER PROGRAM SUMMARY

Micro-credentials 31
Skills Courses 131

Time to complete 2.5 months*

* Completing three modules per day



O*NET job code: 51-9061.00

INTraining code: 7693















GEOMETRY MICRO CREDENTIAL	SKILLS COURSE	GEOMETRY NUMBER
Geometry	Introduction to Geometry	GEO-1002
Intermediate Geometry	Quadrilaterals Circles Three-dimensional Shapes Coordinate Geometry Transformation Geometry	GEO-1008 GEO-1009 GEO-1010
HEALTH 0 SAFETY MICRO CREDENTIAL	SKILLS COURSE	HEALTH & SAFETY
Introduction to Safety	Introduction to OSHA Making Work a Safer Place	SAF-1002
	Help! What to Do in an Emergency	SAF-1003
Personal Protective Equipment Safety	Personal Protective Equipment Eye and Face Protection Head Protection Foot and Leg Protection Hand and Arm Protection Body Protection Hearing Protection Respiratory Protection	SAF-1004 SAF-1005 SAF-1006 SAF-1007 SAF-1008 SAF-1009 SAF-1010
	Personal Protective Equipment Eye and Face Protection Head Protection Foot and Leg Protection Hand and Arm Protection Body Protection Hearing Protection	SAF-1004 SAF-1005 SAF-1006 SAF-1007 SAF-1008 SAF-1009 SAF-1010 SAF-1011 SAF-1012 SAF-1013 SAF-1014





Fall Prevention.....SAF-1018



QUALITY MICRO CREDENTIAL	SKILLS COURSE	QUALITY NUMBER
Quality Management	Quality Concepts The Cost of Quality Managing Quality Quality Documents Corrective and Preventive Action	QUA-1007 QUA-1008 QUA-1009
Introduction to Statistical Process Control	Introduction to SPC Probability and Variation The Control Chart	QUA-1012
Advanced Statistical Process Control	Control Chart Analysis Process Capability Problem Solving Tools Problem Solving	QUA-2002 QUA-2003
PHGINEBING DRAWINGS MICRO CREDENTIAL	ENGINEE!	RING DRAWINGS
Blueprint Reading Fundamentals	Introduction to Blueprints Engineering Drawing Terminology Engineering Drawing Views Engineering Drawing Lines Dimensions and Tolerances	DWG-1002 DWG-1003 DWG-1004
Advanced Blueprint Reading	Geometric Dimensions and Tolerances	DWG-2002
Geometric Dimensioning		DWG-3001





Rules of GD&T......DWG-3003 Geometric Tolerances.......DWG-3004 Form Tolerances......DWG-3006 Profile Tolerances......DWG-3007



MICRO CREDENTIAL	SKILLS COURSE	MEASUREMENT NUMBER
Precision Measurement I	Introduction to Precision Instruments	
	Rules	
	Calipers	
	Micrometers	MEA-2004
Precision Measurement II	Small Hole Gauges	MEA-2005
	Dial Indicators	MEA-2006
	Bore Gauges	MEA-2007
	Height Gauges	MEA-2008
	Go/NoGo Gauges	MEA-2009
	Test Indicators	MEA-2010
Attribute Gauges	Go/NoGo Thread Gauges	MEA-2011
	Attribute Gauges	MEA-2012
	Thickness and Radius Gauges	MEA-2013
	Squares and Protractors	MEA-2014
	Surface Roughness Comparators	MEA-2015
Precision Measurement III	Adjustable Parallels	MEA-2016
	Surface Plates	MEA-2017
	Optical Comparators	MEA-2018
		COMMUNICATION
MICRO CREDENTIAL	SKILLS COURSE	NUMBER
Technical Writing	Introduction to Technical Writing	COM-2004
	Successful Documentation	COM-2005
Communicating with Others	Introduction to Communication	COM-1001
	Effective Communication	COM-1002



MICRO CREDENTIAL	SKILLS COURSE	NUMBER
Technical Writing	Introduction to Technical Writing	COM-2004
	Successful Documentation	COM-2005
ommunicating with Others	Introduction to Communication	COM-1001
	Effective Communication	COM-1002
	Verbal Communication	COM-1003
	Written Communication	COM-1004
	Nonverbal Communication	COM-1005
	Listening Skills	COM-1006
	Workplace Communication	COM-1007
Dealing With Conflict	Understanding Conflict	COM-2001
	Communication Skills	COM-2002
	Managing Conflict	COM-2003







TEAM SULLDING MICRO CREDENTIAL	SKILLS COURSE	TEAM BUILDING NUMBER
Working on a Team	Working in a Group	TEA-1001
	Group Communication	TEA-1002
	Effective Collaboration	
	Life Stages of a Team	
	Meeting	TEA-1005
Team Dynamics	Diversity	TEA-1006
	Creativity	TEA-1007
	Problem Solving	TEA-1008
	Decision Making	TEA-1009
	Conflict Management	TEA-1010
	Leadership	
	Virtual Groups	TEA-1012
		COMMUNICATION
MICRO CREDENTIAL	SKILLS COURSE	NUMBER
Dealing With Conflict	Understanding Conflict	COM-2001
	Communication Skills	COM-2002
	Managing Conflict	COM-2003
		CAREER BUILDING
CARER BUILDING MICRO CREDENTIAL	Managing Conflict	
MICRO CREDENTIAL Searching for a Job		CAREER BUILDING
	SKILLS COURSE	CAREER BUILDING NUMBER CAR-1001
	SKILLS COURSE Kicking Off Your Job Search	CAREER BUILDING NUMBER CAR-1001 CAR-1002
	SKILLS COURSE Kicking Off Your Job Search Finding Jobs to Apply For Networking	CAREER BUILDING NUMBER CAR-1001 CAR-1002 CAR-1003
Searching for a Job	SKILLS COURSE Kicking Off Your Job Search Finding Jobs to Apply For	CAREER BUILDING NUMBER CAR-1001 CAR-1002 CAR-1003 CAR-1004
Searching for a Job	SKILLS COURSE Kicking Off Your Job Search Finding Jobs to Apply For Networking Completing an Employment Application	CAREER BUILDING NUMBER CAR-1001 CAR-1002 CAR-1003 CAR-1004 CAR-1005
Searching for a Job Resumes and Job Applications	Kicking Off Your Job Search	CAREER BUILDING NUMBER CAR-1001 CAR-1002 CAR-1003 CAR-1004 CAR-1005 CAR-1006
Searching for a Job	Kicking Off Your Job Search	CAREER BUILDING NUMBER CAR-1001 CAR-1002 CAR-1003 CAR-1004 CAR-1005 CAR-1006 CAR-1006
Searching for a Job Resumes and Job Applications	Kicking Off Your Job Search	CAREER BUILDING NUMBER CAR-1001 CAR-1002 CAR-1003 CAR-1004 CAR-1005 CAR-1006 CAR-1006
Searching for a Job Resumes and Job Applications	Kicking Off Your Job Search	CAREER BUILDING NUMBER CAR-1001 CAR-1002 CAR-1003 CAR-1004 CAR-1005 CAR-1006 CAR-1006 CAR-1007 CAR-1008 CAR-1009
Searching for a Job Resumes and Job Applications	Kicking Off Your Job Search	CAREER BUILDING NUMBER CAR-1001 CAR-1002 CAR-1003 CAR-1004 CAR-1005 CAR-1006 CAR-1006 CAR-1007 CAR-1008 CAR-1009 CAR-1010
Searching for a Job Resumes and Job Applications Interviewing	Kicking Off Your Job Search	CAREER BUILDING NUMBER CAR-1001 CAR-1002 CAR-1003 CAR-1004 CAR-1005 CAR-1006 CAR-1007 CAR-1008 CAR-1009 CAR-1010 CAR-1010 CAR-1011
Searching for a Job Resumes and Job Applications	Kicking Off Your Job Search	CAREER BUILDING NUMBER CAR-1001 CAR-1002 CAR-1003 CAR-1004 CAR-1005 CAR-1006 CAR-1006 CAR-1007 CAR-1008 CAR-1009 CAR-1010 CAR-1011 CAR-1011







SAFETY **TECHNICIAN**

HELP KEEP OTHERS HEALTHY AND SAFE

Safety technicians collect data on the safety and health conditions of the workplace. Safety technicians work with occupational health and safety specialists in conducting tests and measuring hazards to help prevent harm to workers, property, the environment, and the general public.

Safety technicians work in a variety of settings, such as offices, manufacturing facilities, and mines. Their jobs often involve considerable fieldwork and travel.

INCOME OPPORTUNITIES

Salaries for Occupational Health and Safety Technicians ranges from \$23,190 to \$79,990.*

*Source: U.S. Bureau of Labor Statistics, May 2016

HIRING INDUSTRIES

Automotive Aerospace Civil infrastructure Consumer products Construction Electrical equipment Marine Military Materials processing Medical devices

CAREER PROGRAM SUMMARY

Micro-credentials 26 Skills Courses 111

Time to complete 2.0 months*

* Completing three modules per day



O*NET job code: 29-9012.00

INTraining code: 7668













Intermediate Math



GEOMETRY

IICRO CREDENTIAI SKILLS COURS

NUMBER

Geometry	Introduction to Geometry	GEO-1001
	Basic Building Blocks of Geometry	GEO-1002
	Angles	GEO-1003
	Lines	GEO-1004
	Polygons	GEO-1005
	Triangles	GEO-1006
Intermediate Geometry	Quadrilaterals	GEO-1007
	Circles	GEO-1008
	Three-dimensional Shapes	GEO-1009
	Coordinate Geometry	GEO-1010
	Transformation Geometry	GEO-1011



HEALTH & SAFETY

4	MICRO CREDENTIAL	SKILLS COURSE	NUMBER
	Personal Protective	Personal Protective Equipment	SAF-1004
	Equipment Safety	Eye and Face Protection	
		Head Protection	
		Foot and Leg Protection	SAF-1007
		Hand and Arm Protection	SAF-1008
		Body Protection	SAF-1009
		Hearing Protection	SAF-1010
		Respiratory Protection	SAF-1011
Hazaro	dous Material Safety	Hazardous Materials	SAF-1012
		HazCom	SAF-1013
		Hazardous Waste	SAF-1014
		Hazard Material Storage	SAF-1015
	Workplace Safety	Work Area Safety	SAF-1016
		Permit-Related Safety	
		Fall Prevention	SAF-1018
		Ladder Safety	SAF-1019
Elect	rical and Fire Safety	Electrical Safety	SAF-1020
	•	Lockout/Tagout	
		Fire Safety	
		Fire Extinguishers	











Manufacturing & Logistics Game

The Game of Manufacturing and LogisticsMFG-1008



IICRO CREDENTIAL SKILLS CO

COMMUNICATION

NUMBER

Communicating with Others

Introduction to Communication	COM-1001
Effective Communication	COM-1002
Verbal Communication	COM-1003
Written Communication	COM-1004
Nonverbal Communication	COM-1005
Listening Skills	COM-1006
Workplace Communication	COM-1007



TEAM BUILDING

MICRO CREDENTIAL SKILLS COUP

NUMBER

Working on a Team

Working in a Group	TEA-1001
Group Communication	TEA-1002
Effective Collaboration	TEA-1003
Life Stages of a Team	TEA-1004
Meeting	

Team Dynamics

Diversity	TEA-1006
Creativity	TEA-1007
Problem Solving	TEA-1008
Decision Making	TEA-1009
Conflict Management	TEA-1010
Leadership	TEA-1011
Virtual Groups	TEA-1012



COMMUNICATION

MICRO CREDENTIAL SI

SKILLS COURSE

NUMBER

Dealing With Conflict

Understanding Conflict	COM-2001
Communication Skills	
Managing Conflict	COM-2003
Introduction to Technical Writing	COM-2004

Technical Writing

Thiroduction to reclinical writing		011	-2(_
Successful Documentation	С	OM	-20	0 (5





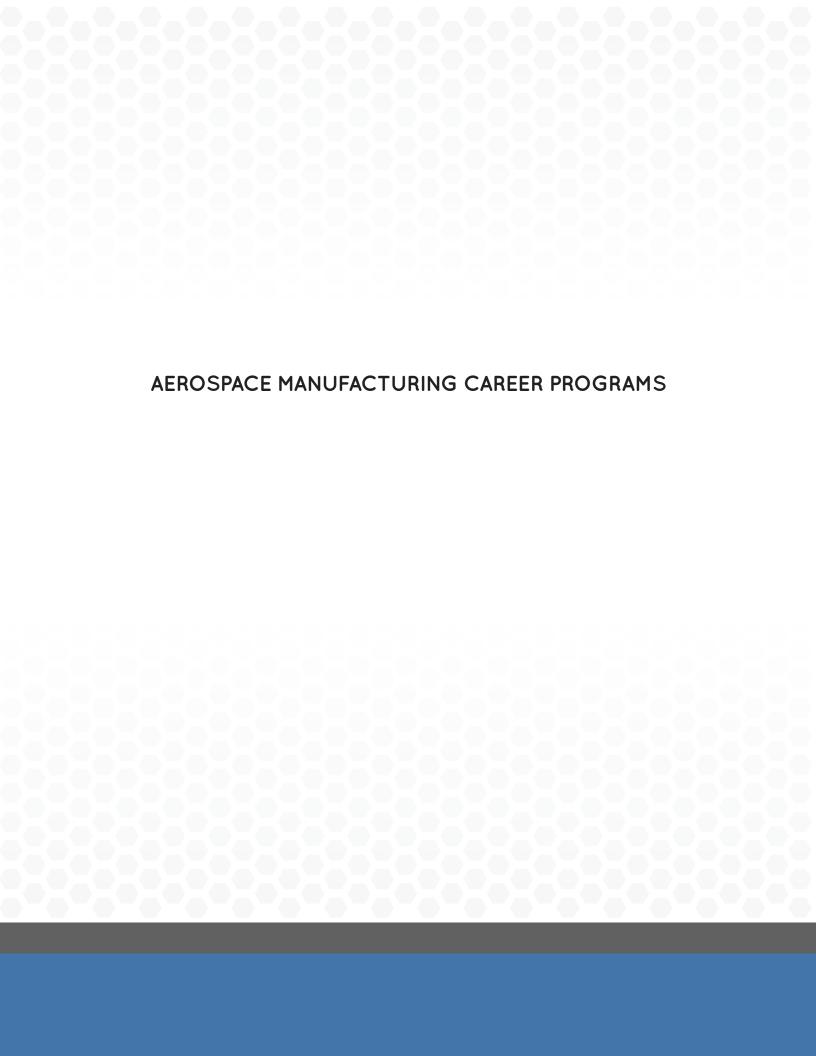


CAREER BUILDING

CAREER BUILDING MICRO CREDENTIAL	SKILLS COURSE	NUMBER
Searching for a Job	Kicking Off Your Job SearchFinding Jobs to Apply For	
	Networking	CAR-1003
Resumes and Job Applications	Completing an Employment Application	CAR-1004
	Creating Your Resume	
	Crafting a Cover Letter	CAR-1006
Interviewing	Understanding the Interview Process	CAR-1007
	Making a Positive Impression	CAR-1008
	Responding to Interview Questions	CAR-1009
	Addressing Special Interview Concerns	CAR-1010
	After the Interview	CAR-1011
Keeping a Job	Surviving Your First Day on the Job	CAR-1012
	Turning a Job into a Career	CAR-1013









AEROSPACE ELECTRICAL ASSEMBLY TECHNICIAN

ELECTRIFY THE WORLD'S AIRCRAFT

Today's aircraft are highly complex machines with hundreds of electronic components and miles of wiring. Aerospace electrical assembly technicians ensure the electronic systems on modern aircraft operate at peak performance.

They prepare wiring layouts, select and install a wide range of electrical components, perform scheduled maintenance, and complete inspections. Repairing, diagnosing and assembling the electronic components, they play a crucial role in ensuring worry-free flight.

INCOME OPPORTUNITIES

Salaries for Electrical Assembly Technicians ranges from \$29,320 to \$50,770.*

*Source: U.S. Bureau of Labor Statistics, 2016

HIRING INDUSTRIES

Air Transport
Aircraft & Parts Manufacturing
Guided Missiles, Space Vehicles, and Parts
Satellite Communications
Search, Detection, and Navigation Guidance
Space Research and Technology

CAREER PROGRAM SUMMARY

Micro-credentials 41 Skills Courses 161

Time to complete 3.5 months*

* Completing three modules per day

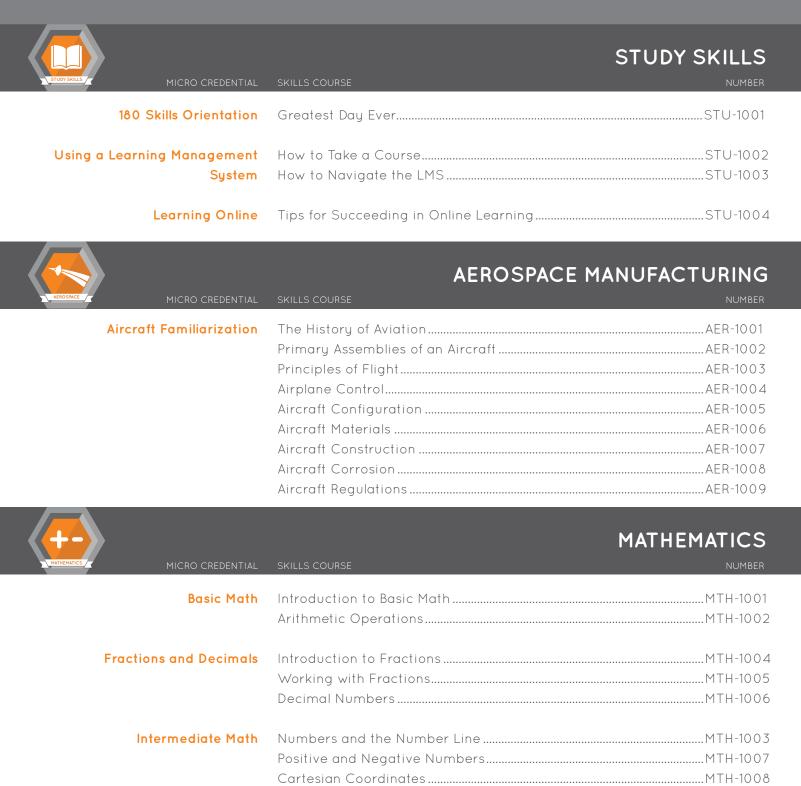


O*NET job code: 49-2096 INTraining code: 7689













The Metric System......MTH-1009



HEALTH & SAFETY

MICRO CREDENTIAL	SKILLS COURSE	NUMBER
Introduction to Safety	Introduction to OSHA	SAF-1001
·	Making Work a Safer Place	
	Help! What to Do in an Emergency	
Personal Protective	Personal Protective Equipment	SAF-1004
Equipment Safety	Eye and Face Protection	
	Head Protection	SAF-1006
	Foot and Leg Protection	SAF-1007
	Hand and Arm Protection	SAF-1008
	Body Protection	SAF-1009
	Hearing Protection	SAF-1010
	Respiratory Protection	SAF-1011
lazardous Material Safety	Hazardous Materials	SAF-1012
	HazCom	SAF-1013
	Hazardous Waste	SAF-1014
	Hazard Material Storage	SAF-1015
Workplace Safety	Work Area Safety	SAF-1016
	Fall Prevention	
Electrical and Fire Safety	Electrical Safety	SAF-1020
	Lockout/Tagout	SAF-1021
Tool and Machine Safety	Hand Tool Safety	SAF-1027
	Power Tool Safety	SAF-1028



ENGINEERING DRAWINGS

Blueprints and Picture Sheets for Aerospace

IAE SITIEES COOKS









CUTTING TOOLS

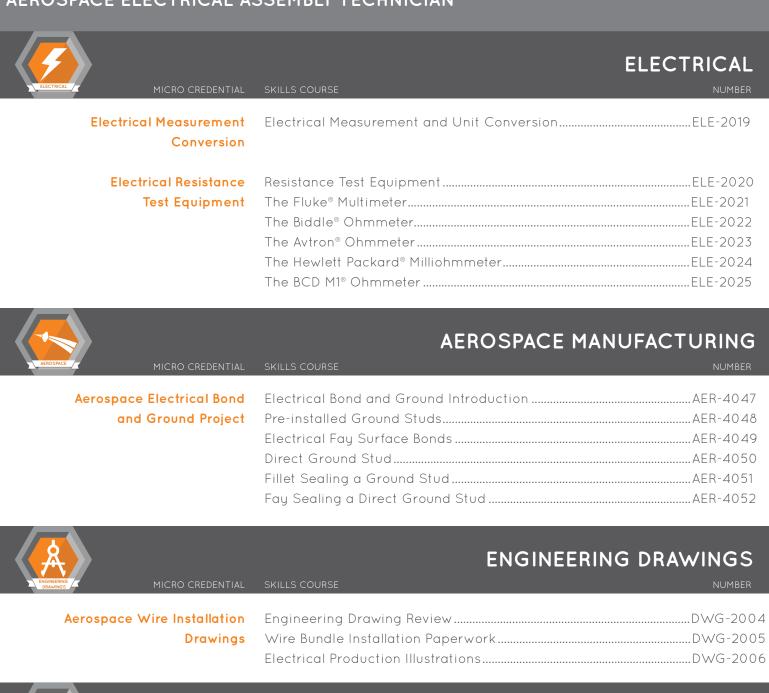


AEROSPACE MANUFACTURING

AEROSPACE MICRO CREDENTIAL	SKILLS COURSE	NUMBER
Basic Drilling and Riveting	Marking Fastener Locations for Drilling Project	AER-4002 AER-4003 AER-4004
Countersinking and Riveting Project	Setting the Countersink Tool (project)	AER-4014
Aerospace Sealing and Safety	Introduction to Sealing	AER-2002 AER-2003 AER-2004
Sealant Applicant Processes Mechanical Project	Sealing Basics	AER-4044 AER-4045
Aerospace Electrical Bond and Ground	Electricity and the Airplane	AER-2006







AEROSPACE MANUFACTURING

space Wire Bundle Basics	Wiring in Airplanes	AER-2007	

Aerospace Wire Bundle Basics

Wire and Cable Basics.....AER-2008 Wire, Cable, and Wire Bundle MarkingsAER-2009 Installing a Connector......AER-2011 MTC Connectors AER-2012 Tuing Wire BundlesAER-2013







ELECTRICAL

MICRO CREDENTIAL Hand Tools for Electrical Wiring.....ELE-2018 **Electrical Hand Tools Electrical Connectors** Electrical Connectors and Fasteners.....ELE-2006 Terminals and Splices.....ELE-4001 Crimping Terminals and Splices CrimpingELE-4002 Crimping a Terminal.....ELE-4003 Crimping a Pre-insulated Splice.....ELE-4004 Assembly of Coaxial Connectors Coaxial CableELE-4005 Coaxial Connector ToolsELE-4007 Coaxial Connector Assemblu.....ELE-4008 **Fiber Optics** Fiber Optics and LightELE-2007 Manufacturing Optical FiberELE-2008



AEROSPACE MANUFACTURING

MICRO CREDENTIAL

Aerospace Wire Bundle **Installation Project**

Clearance and Separation	AER-4053
Minimum Bend Radius	AER-4054
Clamping Wire Bundles - Part One	AER-4055
Tying Wire Bundles for the Wire Bundle	AER-4056
Installation Project	
Project Installation Plan	AER-4057
Project and Drawing Review	AER-4058
Pre-routing Wire Bundles	AER-4059
Clamping Wire Bundles - Part Two	AER-4060
Torque and Inspection	ΛED-1061

Fiber Optic CableELE-2009 Handling Fiber Optic Cable.....ELE-2010 Quality and Safety.....ELE-2011





NUMBER



CAREER BUILDING

CAREER BUILDING	MICRO CREDENTIAL	SKILLS COURSE	NUMBER
	Searching for a Job	Kicking Off Your Job Search Finding Jobs to Apply For Networking	CAR-1002
Resumes	and Job Applications	Completing an Employment Application Creating Your Resume Crafting a Cover Letter	CAR-1005
	Interviewing	Understanding the Interview Process Making a Positive Impression Responding to Interview Questions Addressing Special Interview Concerns After the Interview	CAR-1008 CAR-1009 CAR-1010
	Keeping a Job	Surviving Your First Day on the Job Turning a Job into a Career	







AEROSPACE QUALITY TECHNICIAN

MAKE THE SKIES SAFER

This program was developed with input from industry partners to ensure that aerospace quality assurance technicians have a deep knowledge and mastery of aircraft manufacturing processes.

Aerospace quality technicians reduce development costs, decrease maintenance expenses, and increase customer safety and satisfaction.

INCOME OPPORTUNITIES

Salaries for Aerospace Quality Technicians ranges from \$ 29,280 to \$77,010. *

*Source: U.S. Bureau of Labor Statistics, May 2016

HIRING INDUSTRIES

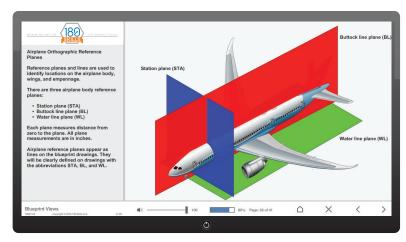
Air transport Aircraft parts manufacturing Guided missiles, space vehicles, and parts Satellite communications Search, detection, and navigation guidance Space research and technology

CAREER PROGRAM SUMMARY

Micro-credentials 43 Skills Courses 186

Time to complete 3.5 months*

* Completing three modules per day



O*NET job code: 19-4099.01











STUDY SKILLS

		STUDY SKILLS
MICRO CREDENTIAL	SKILLS COURSE	NUMBER
180 Skills Orientation	Greatest Day Ever	STU-1001
	How to Take a Course How to Navigate the LMS	
Learning Online	Tips for Succeeding in Online Learning	STU-1004



AEROSPACE MANUFACTURING

MICRO CREDENTIAL SKII

SKILLS COURSE

NUMBER

Aircraft Familiarization

The History of Aviation	AER-1001
Primary Assemblies of an Aircraft	AER-1002
Principles of Flight	AER-1003
Airplane Control	AER-1004
Aircraft Configuration	AER-1005
Aircraft Materials	AER-1006
Aircraft Construction	AER-1007
Aircraft Corrosion	AER-1008
Aircraft Regulations	AER-1009



MATHEMATICS

MICRO CREDENTIAL

SKILLS COURSE

NUMBER

Basic Math

Arithmetic Operations	MTH-1002
Introduction to Fractions	MTH-1004
Working with Fractions	MTH-1005
Decimal Numbers	MTH-1006

Introduction to Basic Math......MTH-1001

Intermediate Math

Fractions and Decimals

Numbers and the Number Line	MTH-1003
Positive and Negative Numbers	MTH-1007
Cartesian Coordinates	MTH-1008
The Metric System	MTH-1009







HEALTH & SAFETY

MICRO CREDENTIAL	SKILLS COURSE	NUMBER
Introduction to Safety	Introduction to OSHA	SAF-1001
	Making Work a Safer Place	SAF-1002
	Help! What to Do in an Emergency	SAF-1003
Personal Protective	Personal Protective Equipment	SAF-1004
Equipment Safety	Eye and Face Protection	
2404	Head Protection	
	Foot and Leg Protection	SAF-1007
	Hand and Arm Protection	SAF-1008
	Body Protection	SAF-1009
	Hearing Protection	SAF-1010
	Respiratory Protection	SAF-1011
Hazardous Material Safety	Hazardous Materials	SAF-1012
	HazCom	SAF-1013
	Hazardous Waste	
	Hazard Material Storage	SAF-1015
Workplace Safety	Work Area Safety	SAF-1016
	Fall Prevention	SAF-1018
Electrical and Fire Safety	Electrical Safety	
	Lockout/Tagout	SAF-1021
Tool and Machine Safety	Hand Tool Safety	SAF-1027
	Power Tool Safety	SAF-1028
		OLIALITY
MICDO CDEDENTIAL	SKILL S COLIDSE	QUALITY
Quality Systems	Introduction to Quality	NUMBER
Quality Systems	ISO 9000	
	Standards Organizations	
	Quality Organizations	
	Basic Quality Roles and Responsibilities	
Introduction to Statistical	Introduction to SPC	
Process Control	Probability and Variation	
	The Control Chart	QUA-1013
Advanced Statistical	Control Chart Analysis	QUA-2001
Process Control	Process Capability	
	Problem Solving Tools	_
	Problem Solving	OUA-2004







ENGINEERING DRAWINGS

Blueprints and Picture Sheets	Aerospace Introduction to Blueprints	DWG-1006
for Aerospace	Blueprint Terminology	DWG-1007
	Blueprint Views	DWG-1008
	Blueprint Lines	DWG-1009
	Blueprint Dimensions and Tolerances	DWG-1010
	Blueprint Symbols	DWG-1011
Geometric Dimensioning	Introduction to GD&T	DWG-3001
The state of the s	GD&T Terms and Symbols	
and folerancing	Rules of GD&T	
	Geometric Tolerances	DWG-3004



MEASUREMENT

Precision Measurement I	Introduction to Precision Instruments	MEA-2001
	Rules	
	Calipers	MEA-2003
	Micrometers	MEA-2004
Precision Measurement II	Small Hole Gauges	MEA-2005
	Dial Indicators	MEA-2006
	Bore Gauges	MEA-2007
	Height Gauges	MEA-2008
	Go/NoGo Gauges	MEA-2009
	Test Indicators	MEA-2010
Fastener Inspection Gauges	Grip Gauges	MEA-2020
	Countersink Gauges	
	Fastener Height Gauges	MEA-2022
	Rivet Inspection Gauges	MEA-2023
	Fastener Inspection Gauges	MEA-2024
	Gap Inspection Gauges	MEA-2025







FASTENERS

MICRO CREDENTIAL

KILLS COURSE

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rus.		1215

Temporary Fasteners	FAS-2001
Rivets	FAS-2002
Bolts, Screws, and Washers	FAS-2003
Threaded Inserts	FAS-2004
Hi-Loks	FAS-2005
Lockbolts	FAS-2006
Nut Plates	FAS-2007
Blind Rivets	FAS-2008
Identifying Fasteners	FAS-2009
Fasteners and Fits	FAS-2010
Securing and Lockwiring Fasteners	FAS-2011
Torque Tools	FΔS-2012



AEROSPACE MANUFACTURING

MICDO CDEDENTIAL

SKILLS COURSE

NUMBER

Aircraft Systems

Flight Control Systems	AER-3001
Mechanical Systems	AER-3002
Landing Gear Systems	AER-3003
Aerospace Hydraulic Systems	AER-3004
Aerospace Pneumatic Systems	AER-3005
Electrical Systems	AER-3006
Propulsion Systems	AER-3007
Fuel Systems	AER-3008
Avionics Systems	AER-3009
Anti-Icing and De-Icing Systems	AER-3010
Environmental Systems	AER-3011
Window and Door Systems	AER-3012
Commercial Aircraft Structures	AER-3013



POWER TOOLS

MICRO CREDENTIAL

SKILLS COURSE

NUMBER

Hand Power Tools

Pistol Grip Drills	POW-2001
Drilling Techniques	POW-2002
Winslow Drills	POW-2003
Compression Riveters	POW-2004
Rivet Installation Tools	POW-2005







CUTTING TOOLS



AEROSPACE MANUFACTURING

MICRO CREDENTIAL	SKILLS COURSE	NUMBER
Basic Drilling and Riveting	Marking Fastener Locations for Drilling Project	AER-4001
	Setting Up the Drill Motor	
	Drilling Pilot Holes and Enlarging Holes	AER-4003
	Deburring	AER-4004
	Driving Protruding Head Rivets	AER-4005
Installing Advanced	Assembly Preparation for Advanced Fasteners Project	AER-4006
Fasteners Project	Installing Nut Plates	AER-4007
	Compression Riveting	AER-4008
	Installing Bolts	AER-4009
	Securing Bolts with Lockwire	AER-4010
Countersinking and Riveting Project	Marking Fastener Locations for Countersinkingand Flush Riveting Project	AER-4011
	Setting Up the Assembly and Drill	AER-4012
	Drilling, Enlarging, and Deburring Holes	AER-4013
	Setting the Countersink Tool (project)	AER-4014
	Countersinking (project)	AER-4015
	Flush Riveting	AER-4016
90 Degree Drilling Project	Assembly Preparation for 90 Degree Drilling Project	AER-4017
	Installing 5/16 Inch Hi-Loks	AER-4018
	Installing 3/16 Inch Hi-Loks	AER-4019
	Installing Protruding Head Rivets	AER-4020
	Removing Rivets in the 90 Degree Drilling Project	AER-4021
	Removing 5/16 Inch Hi-Loks	AER-4022
Aerospace Electrical Bond and Ground	Electricity and the Airplane	AER-2006







ELECTRICAL MICRO CREDENTIAL	SKILLS COURSE	ELECTRICAL NUMBER
Electrical Measurement Conversion	Electrical Measurement and Unit Conversion	ELE-2019
Electrical Resistance Test Equipment	Resistance Test Equipment The Fluke® Multimeter The Biddle® Ohmmeter The Avtron® Ohmmeter The Hewlett Packard® Milliohmmeter The BCD M1® Ohmmeter	ELE-2021 ELE-2022 ELE-2023 ELE-2024
AEROSPACE MICRO CREDENTIAL	AEROSPACE MAN	NUFACTURING NUMBER
Aerospace Electrical Bond and Ground Project	Electrical Bond and Ground Introduction	AER-4048 AER-4049 AER-4050 AER-4051
Aerospace Sealing and Safety	Introduction to Sealing Chemical Safety Preparing the Surface Selecting the Right Sealant Applying the Sealant	AER-2002 AER-2003 AER-2004
NGINERING DRAWNGS MICRO CREDENTIAL	ENGINEERIN SKILLS COURSE	NG DRAWINGS



Aerospace Wire Installation **Drawings**

Engineering Drawing Review......DWG-2004 Wire Bundle Installation Paperwork......DWG-2005 Electrical Production Illustrations......DWG-2006









AEROSPACE MANUFACTURING

MICRO CREDENTIAL SKILLS COURSE



Wiring in Airplanes	.AER-2007
Wire and Cable Basics	.AER-2008
Wire, Cable, and Wire Bundle Markings	.AER-2009
Circular Connectors and Contacts	.AER-2010
Installing a Connector	AER-2011
MTC Connectors	.AER-2012
Tying Wire Bundles	.AER-2013



COMMUNICATION

Technical Writing

Dealing With Conflict

Introduction to Technical WritingCOM-2004 Successful Documentation......COM-2005 Communication SkillsCOM-2002



CAREER BUILDING

Searching for a Job

Kicking Off Your Job Search......CAR-1001 Networking CAR-1003

Resumes and Job Applications

Completing an Employment Application......CAR-1004 Creating Your Resume......CAR-1005 Crafting a Cover Letter......CAR-1006

Interviewing

Making a Positive ImpressionCAR-1008 Addressing Special Interview ConcernsCAR-1010

Keeping a Job

Surviving Your First Day on the JobCAR-1012 Turning a Job into a Career......CAR-1013







AEROSPACE STRUCTURES TECHNICIAN

MAKE THE WORLD'S AIRCRAFT

This program was developed with input from industry partners to ensure that aerospace structures technicians have a deep knowledge and mastery of aircraft structures manufacturing processes.

Aerospace structures technicians assemble, fit, fasten, and install parts of airplanes, space vehicles, or missiles, such as tails, wings, fuselages, bulkheads, stabilizers, landing gear, rigging, control equipment, and heating and ventilating systems.

INCOME OPPORTUNITIES

Salaries for Aerospace Structures Technicians ranges from \$32,460 to \$78,150 **

*Source: U.S. Bureau of Labor Statistics, 2016

HIRING INDUSTRIES

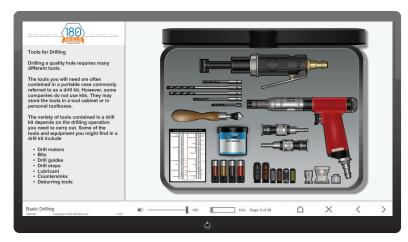
Air transport Aircraft parts manufacturing Guided missiles, space vehicles, and parts Satellite communications Search, detection, and navigation guidance Space research and technology

CAREER PROGRAM SUMMARY

Micro-credentials 40 Skills Courses 171

Time to complete 3.5 months*

* Completing three modules per day



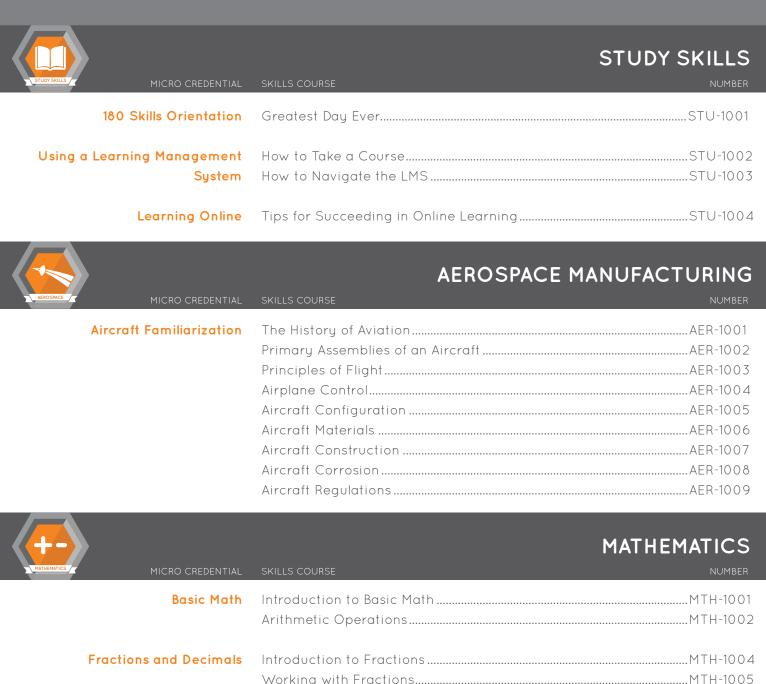
O*NET job code: 51-2011.00

INTraining code: 7691













Intermediate Math

Decimal NumbersMTH-1006



HEALTH & SAFETY

MICRO CREDENTIAL	SKILLS COURSE	NUMBER
Introduction to Safety	Introduction to OSHA	SAF-1001
·	Making Work a Safer Place	SAF-1002
	Help! What to Do in an Emergency	SAF-1003
Personal Protective	Personal Protective Equipment	SAF-1004
Equipment Safety	Eye and Face Protection	SAF-1005
	Head Protection	SAF-1006
	Foot and Leg Protection	SAF-1007
	Hand and Arm Protection	SAF-1008
	Body Protection	SAF-1009
	Hearing Protection	SAF-1010
	Respiratory Protection	SAF-1011
Hazardous Material Safety	Hazardous Materials	SAF-1012
	HazCom	SAF-1013
	Hazardous Waste	SAF-1014
	Hazard Material Storage	SAF-1015
Workplace Safety	Work Area Safety	SAF-1016
	Fall Prevention	
Electrical and Fire Safety	Electrical Safety	SAF-1020
	Lockout/Tagout	SAF-1021
Tool and Machine Safety	Hand Tool Safety	SAF-1027



ENGINEERING DRAWINGS

Blueprints and Picture Sheets for Aerospace

Power Tool SafetySAF-1028







Bench Grinder......POW-2011



CUTTING TOOLS

MICRO CREDENTIAL	SKILLS COURSE	NUMBER
Drill Bits	Drill Bits	CUT-2001
Drill Guides and Drill Stops	Drill Guides and Drill Stops	CUT-2002
Countersinking Tools	Countersinking Tools	CUT-2003



AEROSPACE MANUFACTURING

MICRO CREDENTIAL	SKILLS COURSE	NUMBER
Basic Drilling and Riveting	Marking Fastener Locations for Drilling Project	
	Setting Up the Drill Motor	
	Drilling Pilot Holes and Enlarging Holes	
	Deburring	
	Driving Protruding Head Rivets	AER-4005
Installing Advanced	Assembly Preparation for Advanced Fasteners Project	AER-4006
Fasteners Project	Installing Nut Plates	AER-4007
	Compression Riveting	AER-4008
	Installing Bolts	AER-4009
	Securing Bolts with Lockwire	AER-4010
Countersinking and	Marking Fastener Locations for Countersinking	AER-4011
Riveting Project	and Flush Riveting Project	
	Setting Up the Assembly and Drill	AER-4012
	Drilling, Enlarging, and Deburring Holes	AER-4013
	Setting the Countersink Tool (project)	AER-4014
	Countersinking (project)	AER-4015
	Flush Riveting	AER-4016
90 Degree Drilling Project	Assembly Preparation for 90 Degree Drilling Project	AER-4017
	Installing 5/16 Inch Hi-Loks	AER-4018
	Installing 3/16 Inch Hi-Loks	AER-4019
	Installing Protruding Head Rivets	AER-4020
	Removing Rivets in the 90 Degree Drilling Project	
	Removing 5/16 Inch Hi-Loks	







AEROSPACE MANUFACTURING

AEROSPACE	MICR

COMPOSITES

Urillir	ng i	itani	um	Proj	eci

Drilling Titanium	AER-4023
Marking Hole Locations for Drilling Titanium	AER-4024
Drilling Pilot Holes in Titanium	AER-4025
Drilling and Enlarging Holes in Row JD2	AER-4026
Enlarging Row JD7	AER-4027
Enlarging Rows JD4, JD5, and JD6	AER-4028
Enlarging Rows JD1 and JD3	AER-4029
Enlarging Row JD8	AER-4030
Chamfering	AER-4031
Edge Breaking and Deburring	AER-4032



Drilling Composites Project

Drilling Composite Material	CMP-4004
Marking Hole Locations	CMP-4005
Drilling Pilot Holes in Titanium	CMP-4006
Drilling Row JD3	.CMP-4007
Drilling Row JD7	.CMP-4008
Enlarging Holes in Rows JD1 and JD5	CMP-4009
Enlarging Holes in Rows JD2 and JD6	CMP-4010
Enlarging Holes in Row JD4	CMP-4011



AEROSPACE MANUFACTURING

Wing Structure Project Tools for Wing Structure Project.................AER-4033

Prepar	ring	the	Assen	nbly	for	the	Win	g Str	uctur	e Proj	ect	 AER-	4034
Counte	ersir	nkin	g and	Fille	t Re	elief						 AER-	4035
Installi	ing f	ast	eners.									 AER-	4036
					,		_		O. I			4	40.7-

Fuselage Skin Assembly Project

Preparing the Assembly for the Fuselage Skin Assembly	.AER-4037
Drilling the Skin Panels	AER-4038
Preparing the Doubler	.AER-4039
Countersinking	AER-4040
Assembly Finish and Fastener Installation	AER-4041
Removing Rivets in the Fuselage Skin Assembly	.AER-4042







AEROSPACE MANUFACTURING

MICRO CREDENTIAL	SKILLS COURSE	NOMBER
Aerospace Sealing and Safety	Introduction to Sealing	AER-2001
	Chemical Safety	AER-2002
	Preparing the Surface	AER-2003
	Selecting the Right Sealant	AER-2004
	Applying the Sealant	AER-2005
Sealant Applicant Processes	Sealing Basics	AER-4043
Mechanical Project	Fay and Prepack Sealing	AER-4044
	Fillet and Injection Sealing	AER-4045
	Cap Sealing	AER-4046
Aerospace Electrical Bond	Electricity and the Airplane	AER-2006
and Ground		



ELECTRICAL

Electrical Measurement Conversion Electrical Measurement and Unit Conversion......ELE-2019

Electrical Resistance Test Equipment Resistance Test Equipment.....ELE-2020 The Fluke® Multimeter.....ELE-2021 The Biddle® Ohmmeter.....ELE-2022 The Avtron® Ohmmeter.....ELE-2023 The Hewlett Packard® Milliohmmeter.....ELE-2024 The BCD M1[®] Ohmmeter......FI F-2025



AEROSPACE MANUFACTURING

NUMBER

Aerospace Electrical Bond and Ground Project Pre-installed Ground Studs......AER-4048 Electrical Fay Surface BondsAER-4049 Fillet Sealing a Ground Stud......AER-4051 Fay Sealing a Direct Ground StudAER-4052







CAREER BUILDING

CAREER MICRO CREDENTIAL	SKILLS COURSE	NUMBER
Searching for a Job	Kicking Off Your Job Search	CAR-1001
	Finding Jobs to Apply For	
	Networking	
Resumes and Job Applications	Completing an Employment Application	
	Creating Your Resume	
	Crafting a Cover Letter	CAR-1006
Interviewing	Understanding the Interview Process	CAR-1007
	Making a Positive Impression	CAR-1008
	Responding to Interview Questions	CAR-1009
	Addressing Special Interview Concerns	CAR-1010
	After the Interview	CAR-1011
Keeping a Job	Surviving Your First Day on the Job	CAR-1012
	Turning a Job into a Career	CAR-1013





