Advanced Machine Tool Technology Current Standards

INDICATOR #AMT 1: Demonstrate knowledge of safety and essential academic concepts in machine tool.
SUB-INDICATOR 1.1 (Webb Level: 2 Skill/Concept): Prove
knowledge of shop operations and tool safety procedures
consistent with Occupational Safety and Health
Administration (OSHA) standards.
SUB-INDICATOR 1.2 (Webb Level: 2 Skill/Concept): Apply
advanced concepts, including machine tool mathematics,
blueprint reading, science, and communications to machine
tool processes.
SUB-INDICATOR 1.3 (Webb Level: 2 Skill/Concept):
Demonstrate and apply computer numerical control (CNC)
programming concepts

INDICATOR #AMT 2: Demonstrate ability through research,
development, and implementation to create a project
SUB-INDICATOR 2.1 (Webb Level: 3 Strategic Thinking):
Design, analyze and create various types of projects utilizing
previous knowledge and skills to manufacture a single or
assembled project.
SUB-INDICATOR 2.2 (Webb Level: 3 Strategic Thinking):
Evaluate and solve issues related to lathe and milling setups

INDICATOR #AMT 3: Demonstrate ethical practices and
research career pathways
SUB-INDICATOR 3.1 (Webb Level: 3 Strategic Thinking):
Identify and demonstrate professional practices used in the
machine shon

and operations.

SUB-INDICATOR 3.2 (Webb Level: 4 Extended Thinking): Evaluate and describe career exploration activities to follow for a minimum of two different career pathways.

Advanced Machine Tool Technology Proposed Standards

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	AMT 1: Demonstrate knowledge of safety and essential academic concepts in machine tool.
Level 2: Skill/Concept	AMT 1.1 Prove knowledge of shop operations and tool safety procedures consistent with Occupational Safety and Health Administration (OSHA) standards.
Level 2: Skill/Concept	AMT 1.2 Apply advanced concepts, including machine tool mathematics, mechanical drawing, science, and communications to machine tool processes.
Level 2: Skill/Concept	AMT 1.3 Demonstrate and apply computer numerical control (CNC) programming concepts.
	AMT 2: Demonstrate machine use and functions, utilizing

	AMT 2: Demonstrate machine use and functions, utilizing problem solving skills to resolve machining issues.
Level 3: Strategic Thinking	AMT 2.1 Utilize prior knowledge of tools, methods of measurement, materials, and material layout.
Level 3: Strategic Thinking	AMT 2.2 Set up and run lathe and milling machines to do advanced machining operations.
Level 4: Extended Thinking	AMT 2.3 Evaluate and solve issues related to lathe and milling setups and operations.

	AMT 3: Apply career readiness skills in the workplace as
	they relate to today's society.
Level 1: Recall	AMT 3.1 Identify and demonstrate career readiness (soft
	skills) in the workplace.

	AMT 4: Machine tool technology career exploration and
	development.
Level 2: Skill/Concept	AMT 4.1 Define and compare career pathways in machine tool technology.
Level 4: Extended Thinking	AMT 4.2 Design a personal learning plan for career interest in machine tool technology.
Level 2: Skill/Concept	AMT 4.3 Explain trends and issues in machine tool technology careers.

Introduction to Manufacturing Current Standards

manufacturing process/industry/business.

INDICATOR #IM 1: Career exploration and development.
SUB-INDICATOR 1.1 (Webb Level: 1 Recall): Recognize the
various career pathways/occupations that are available in

SUB-INDICATOR 1.2 (Webb Level: 4 Extended Thinking): Design a career path for individual career interest in the manufacturing cluster.

INDICATOR #IM 6: Differentiate among a variety of manufacturing industries.

SUB-INDICATOR 6.1 (Webb Level: 2 Skill/Concept): Research and understand basic concepts of the manufacturing career pathways.

INDICATOR #IM 2: Plan, manage and perform the processing of materials into intermediate or final products and understand related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.

SUB-INDICATOR 2.1 (Webb Level: 3 Strategic Thinking): Develop a business plan for manufacturing operations.

SUB-INDICATOR 2.2 (Webb Level: 1 Recall): Explain trends and issues in the manufacturing industry.

SUB-INDICATOR 2.3 (Webb Level: 3 Strategic Thinking): Demonstrate a management plan for the manufacturing process for the production of a product and/or business

INDICATOR #IM 3: Implement manufacturing technology safety practices.

SUB-INDICATOR 3.1 (Webb Level: 1 Recall): Maintain general safety in accordance with government regulations, health standards, and company and/or school policy.

SUB-INDICATOR 3.2 (Webb Level: 2 Skill/Concept): Evaluate ergonomic factors associated with the manufacturing industry.

INDICATOR #IM 4: Apply ethical practices in the workplace as they relate to today's society.

SUB-INDICATOR 4.1 (Webb Level: 1 Recall): Identify and display professional practices in the workplace.

INDICATOR #IM 5: Utilize the appropriate tools and equipment used in the manufacturing industry.

SUB-INDICATOR 5.1 (Webb Level: 2 Skill/Concept): Use basic tools and equipment common to the manufacturing processes.

INDICATOR #CE 7: Design and create a product using the engineering design loop

SUB-INDICATOR 7.1 (Webb Level: 3 Strategic Thinking): Differentiate products/components in relationship to size, proportion and tolerances.

SUB-INDICATOR 7.2 (Webb Level: 3 Strategic Thinking): Develop a prototype of a product.

SUB-INDICATOR 7.3 (Webb Level: 4 Extended Thinking): Test and evaluate a product.

Introduction to Manufacturing Proposed Standards

	IM 1: Career exploration and development.
Level 1: Recall	IM 1.1 Research the various career pathways/occupations
	that are available in manufacturing
	process/industry/business.
Level 4: Extended Thinking	IM 1.2 Design a personal learning plan for career interest in
	the manufacturing cluster.
Level 2: Skill/Concept	IM 1.3 Explain trends and issues in the manufacturing
	industry.

	IM 2: Research various manufacturing plans/drawings.
Level 1: Recall	IM 2.1 Identify the features of a manufacturing plan or technical drawing.
Level 1: Recall	IM 2.2 Identify various measurement tools used in manufacturing
Level 2: Skill/Concept	IM 2.3 Utilize various measurement tools used in manufacturing with precision
Level 2: Skill/Concept	IM 2.4 Apply mathematical concepts to measurement techniques

	IM 3: Implement manufacturing safety practices.
Level 2: Skill/Concept	IM 3.1 Identify and demonstrate general safety in accordance with government regulations, health standards, and company and/or school policy.
Level 1: Recall	IM 3.2 Identify ergonomic measures to prevent worker fatigue and injury

IM 4: Apply career readiness skills in the workplace as
 they relate to today's society.
IM 4.1 Identify and demonstrate career readiness (soft
skills) in the workplace.

	IM 5: Utilize the appropriate tools and equipment used in the manufacturing industry.
Level 1: Recall	IM 5.1 Research and understand basic manufacturing tools.
Level 2: Skill/Concept	IM 5.2 Use basic tools and equipment common to the manufacturing processes.

_	IM 6: Manufacture a product.
Level 3: Strategic Thinking	IM 6.1 Interpret or create basic technical drawings/plans.
Level 4: Extended Thinking	IM 6.2 Develop a prototype of a product.
Level 4: Extended Thinking	IM 6.3 Test and evaluate a product.

Introduction to Manufacturing Current Standards

SUB-INDICATOR 7.4 (Webb Level: 3 Strategic Thinking): Redesign product for final production.

Introduction to Manufacturing Proposed Standards

Level 4: Extended Thinking	IM 6.4 Redesign product for final production.

Mechanical Drafting and Design Current Standards

INDICATOR #MDD 1: Demonstrate the use of geometric	,
construction	
CLID INDICATOR 4.4 (MV LL L L 2 CL'III/C L L L 2 CL'III/C	

SUB-INDICATOR 1.1 (Webb Level: 2 Skill/Concept): Apply geometric design and descriptive geometry to the design process.

SUB-INDICATOR 1.2 (Webb Level: 3 Strategic Thinking):
Demonstrate basic geometric dimensioning and tolerancing
(GD&T).

INDICATOR #MDD 2: Prepare mechanical drawings.
SUB-INDICATOR 2.1 (Webb Level: 3 Strategic Thinking):
Create a multi-view drawing.
CLID INDICATOR 2.2 (Markh Lavel 2. Charteria Thirdian)

SUB-INDICATOR 2.2 (Webb Level: 3 Strategic Thinking): Create sectional views of a mechanical drawing.

SUB-INDICATOR 2.3 (Webb Level: 3 Strategic Thinking): Develop auxiliary views of mechanical drawings.

SUB-INDICATOR 2.4 (Webb Level: 3 Strategic Thinking): Generate pictorial drawings.

SUB-INDICATOR 2.5 (Webb Level: 2 Skill/Concept): Examine drawing identification and management techniques used in mechanical drafting.

INDICATOR #MMD 3: Understand the design for manufacturing and assembly.

SUB-INDICATOR 3.1 (Webb Level: 1: Recall): Analyze different manufacturing processes.

SUB-INDICATOR 3.2 (Webb Level: 1: Recall): Identify basic welding symbols used in manufacturing design process.

INDICATOR #MMD 4: Explore careers in drafting fields.

SUB-INDICATOR 4.1 (Webb Level: 2 Skills/Concept): Define/compare career pathways in drafting

Mechanical Drafting and Design Proposed Standards

	MDD 1: Demonstrate the use of geometric construction
	MDD 1.1 Apply geometric design and mechanical drafting to the design process.
Level 3: Strategic Thinking	MDD 1.2 Demonstrate basic geometric dimensioning and tolerancing (GD&T).

	MDD 2: Prepare mechanical drawings.
Level 3: Strategic Thinking	MDD 2.1 Create a multi-view drawing.
Level 2: Skill/Concept	MDD 2.2 Examine drawing identification and management techniques used in mechanical drafting.
Level 3: Strategic Thinking	MDD 2.3 Create sectional views of a mechanical drawing.
Level 3: Strategic Thinking	MDD 2.4 Develop auxiliary views of mechanical drawings.
Level 3: Strategic Thinking	MDD 2.5 Generate pictorial drawings.

	MDD 3: Understand the design for manufacturing and assembly.
Level 1: Recall	MDD 3.1 Analyze different manufacturing processes.
Level 1: Recall	MDD 3.2 Identify basic welding symbols used in the manufacturing design process.

	MDD 4: Mechanical drafting career exploration and
	development.
Level 2: Skill/Concept	MDD 4.1 Define and compare career pathways in
	mechanical drafting.
Level 4: Extended Thinking	MDD 4.2 Design a personal learning plan for career interest
	in mechanical drafting.
Level 2: Skill/Concept	MDD 4.3 Explain trends and issues in mechanical drafting
	careers.

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	MDD 5: Apply career readiness skills in the workplace as
	they relate to today's society.
Level 1: Recall	MDD 5.1 Identify and demonstrate career readiness (soft
	skills) in the workplace.

Machine Tool Technology Current Standards

basic CNC programming and processes.

INDICATOR #MT 1: Demonstrate knowledge of safety and essential academic concepts in Machine Tool SUB-INDICATOR 1.1 (Webb Level:1 Recall): Explain and show knowledge of machine shop operations and tool safety procedures consistent with Occupational Safety and Health Administration (OSHA) standards SUB-INDICATOR 1.2 (Webb Level: 2 Skills/Concept): Introduce concepts of basic mathematics, blueprint reading, science, and communications used in machine tool processes. SUB-INDICATOR 1.3 (Webb Level: 1 Recall): Understand

INDICATOR #MT 2: Show proper machine use and
functions, utilizing problem solving skills to resolve
machining issues
SUB-INDICATOR 2.1 (Webb Level: 3 Strategic Thinking):
Demonstrate knowledge of terminology, tools, methods of
measurement, and material layout.
SUB-INDICATOR 2.2 (Webb Level: 2 Skill/Concept):
Demonstrate problem solving skills in basic lathe and
milling setups and operations.

INDICATOR #MT 3: Apply proper ethical standards to
machining skills and processes
SUB-INDICATOR 3.1 (Webb Level:2 Skills/Concept): Identify
and demonstrate professional practices used in the
machine shop.

INDICATOR #MT 4: Explore Careers in the Manufacturing
cluster
SUB-INDICATOR 4.1 (Webb Level: 1 Recall): Identify
machine tool related career pathways.

Machine Tool Technology Proposed Standards

	MT 1: Demonstrate knowledge of safety and essential
	academic concepts in machine tooling.
Level1: Recall	MT 1.1 Demonstrate knowledge of machine shop operations and tool safety procedures consistent with Occupational Safety and Health Administration (OSHA) standards
Level1: Recall	MT 1.2 Introduce concepts of basic mathematics, mechanical drafting, science, tool terminology and communications used in machine tool processes.
Level 2: Skill/Concept	MT 1.3 Demonstrate basic CNC programming and processes.

	MT 2: Show proper machine use and functions, utilizing problem solving skills to resolve machining issues
Level 3: Strategic Thinking	MT 2.1 Demonstrate knowledge of tools, methods of measurement, materials, and material layout.
Level 3: Strategic Thinking	MT 2.2 Set up and run lathe and milling machines to do basic machining operations.
Level 3: Strategic Thinking	MT 2.3 Demonstrate testing and problem-solving skills in basic lathe and milling setups and operations.

	MT 3: Apply career readiness skills in the workplace as
	they relate to today's society.
Level 1: Recall	MT 3.1 Identify and demonstrate career readiness (soft
	skills) in the workplace.

	MT 4: Machine tool technology career exploration and
	development.
Level2: Skill/Concept	MT 4.1 Define and compare career pathways in machine
	tool technology.
Level 4: Extended Thinking	MT 4.2 Design a personal learning plan for career interest in
	machine tool technology.
Level 2: Skill/Concept	MT 4.3 Explain trends and issues in machine tool

Welding Technology

Current Standards

INDICATOR #WT 1: Identify and understand welding safety.

SUB-INDICATOR 1.1 (Webb Level: 2 Skill/Concept): Identify and demonstrate proper industry safety standards.

INDICATOR #WT 2: Read, comprehend, and communicate written and spoken technical terminology and instructions related to welding and welded assemblies.

SUB-INDICATOR 2.1 (Webb Level: 2 Skill/Concept): Demonstrate mathematical skills related to work assignments.

SUB-INDICATOR 2.2 (Webb Level: 1 Recall): Read and demonstrate understanding of welding terms and definitions from American National Standards Institute (ANSI)/American Welding Society (AWS) A3.0, Standard Welding Terms and Definitions.

INDICATOR #WT 3: Interpret drawings and welding symbol information.

SUB-INDICATOR 3.1 (Webb Level: 3 Strategic Thinking): Read and sketch drawings.

SUB-INDICATOR 3.2 (Webb Level: 1 Recall): Identify basic weld symbols.

SUB-INDICATOR 3.3 (Webb Level: 1 Recall): Identify lines and joints.

INDICATOR #WT 4: Understand and Perform metal cutting operations.

SUB-INDICATOR 4.1 (Webb Level: 2 Skill/Concept): Identify and explain the use of oxyfuel and plasma cutting equipment.

SUB-INDICATOR 4.2 (Webb Level: 2 Skill/Concept): Prepare layouts for cutting individual parts.

SUB-INDICATOR 4.3 (Webb Level: 2 Skill/Concept): Perform cuts using oxyfuel and plasma cutting processes.

INDICATOR #WT 5: Exhibit knowledge and perform base metal preparation.

SUB-INDICATOR 5.1 (Webb Level: 2 Skill/Concept): prepare base metal for various welding processes.

INDICATOR #WT 6: Understand and Perform Shielded Metal Arc Welding (SMAW) process

SUB-INDICATOR 6.1 (Webb Level: 1 Recall): Identify and understand SMAW equipment and setup.

SUB-INDICATOR 6.2 (Webb Level:,1 Recall): Define and understand the application for different Shielded Metal Arc (SMAW) electrodes.

SUB-INDICATOR 6.3 (Webb Level: 2 Skill/Concept):
Demonstrate knowledge of Shielded Metal Arc Welding (SMAW) process.

INDICATOR #WT 7: Identify and demonstrate knowledge of quality control of the welding process.

SUB-INDICATOR 7.1 (Webb Level: 3 Strategic Thinking):
Demonstrate knowledge of weld quality

INDICATOR #WT 8: Participate in career exploration activities

Welding Technology

Proposed Standards

	WT 1: Implement welding safety practices.
Level 2: Skill/Concept	WT 1.1 Identify and demonstrate general safety in
	accordance with government regulations, health standards,
	and company and/or school policy

	WT 2: Integrate core academic concepts as used in the welding industry.
Level 2: Skill/Concept	WT 2.1 Apply mathematical concepts to measurement techniques
Level 1: Recall	WT 2.2 Read, comprehend, and communicate welding terms and definitions from American National Standards Institute (ANSI)/American Welding Society (AWS) A3.0, Standard Welding Terms and Definitions

	WT 3: Interpret drawings and welding symbol information.
Level 1: Recall	WT 3.1 Identify basic weld symbols and joints
Level 2: Skill/Concept	WT 3.2 Use appropriate lines in welding drawing
Level 3: Strategic Thinking	WT 3.3 Read and sketch drawings

	WT 4: Perform thermal cutting operations.
Level 2: Skill/Concept	WT 4.1 Identify and explain the safety, parts, and operation of thermal cutting equipment
Level 2: Skill/Concept	WT 4.2 Prepare layouts for cutting individual parts
Level 3: Strategic Thinking	WT 4.3 Perform cuts using thermal cutting processes

	WT 5: Perform Shielded Metal Arc Welding (SMAW)
	process.
Level 2: Skill/Concept	WT 5.1 Identify and understand the safety, parts, and
	operation of SMAW
Level 2: Skill/Concept	WT 5.2 Define and understand the application for different
	Shielded Metal Arc (SMAW) electrodes
Level 2: Skill/Concept	WT 5.3 Prepare base metal for various welding processes
Level 4: Extended Thinking	WT 5.4 Perform Shielded Metal Arc Welding (SMAW)
	process

	WT 6: Identify and demonstrate knowledge of the inspection of welding and cutting processes.
Level 3: Strategic Thinking	WT 6.1 Visually inspect a weld.
Level 2: Skill/Concept	WT 6.2 Examine thermally cut surfaces and edges for discontinuities.

WT 7: Welding technology career exploration and development.

Manufacturing Cluster, page 7 of 9 pages

Welding Technology

Current Standards

SUB-INDICATOR 8.1 (Webb Level: 2 Skill/Concept): Research career opportunities in manufacturing/welding fields.

SUB-INDICATOR 9.1 (Webb Level:1 Recall): Students will follow the following required ethical practices of Manufacturing Industry.

Welding Technology Pr

Proposed Standards

· ·	WT 7.1 Define and compare career pathways in welding technology.
Level 4: Extended Thinking	WT 7.2 Design a personal learning plan for career interest in welding technology.
Level 2: Skill/Concept	WT 7.3 Explain trends and issues in welding technology careers.

WT 8: Apply career readiness skills in the workplace as they relate to today's society.
WT 8.1 Identify and demonstrate career readiness (soft skills) in the workplace.

Advanced Welding Technology Current Standards

INDICATOR #AWT 1: Identify and conform to basic welding
safety standards
SUB-INDICATOR 1.1 (Webb Level: Two Skill/Concept):
Identify and practice the proper industry safety standards.

INDICATOR #AWT 2: Interpret, layout, and fabricate in

	conformance to fabrication drawings	
	SUB-INDICATOR 2.1 (Webb Level: 2 Skill/Concept): Correctly	
interpret dimensions and locations of components in		
fabrication drawings.		
	SUB-INDICATOR 2.2 (Webb Level: 2 Skill/Concept): Correctly	
	scale dimensions in fabrication drawings.	
	SUB-INDICATOR 2.3 (Webb Level: 2 Skill/Concept): Correctly	
	interpret orthographic and pictorial plan views shown in	
	fabrication drawings.	
	SUB-INDICATOR 2.4 (Webb Level: 2 Skill/Concept):	
	Recognize and correctly interpret lines and symbols	
	commonly used in fabrication drawings.	

I	INDICATOR #AWT 3: Exhibit knowledge and perform base
	metal preparation.
I	SUB-INDICATOR 3.1 (Webb Level: 2 Skill/Concept): Prepare
	base metal for various welding processes.

INDICATOR #AWT 4: Understand and perform Gas Metal Arc Welding (GMAW) process
SUB-INDICATOR 4.1 (Webb Level: 2 Skill/Concept): Identify and understand GMAW equipment and setup.
SUB-INDICATOR 4.2 (Webb Level: 2 Skill/Concept):

INDICATOR #AWT 5: Understand and perform Gas Tungsten
Arc Welding (GTAW) process
SUB-INDICATOR 5.1 (Webb Level: 2 Skill/Concept):
Understand GTAW equipment and filler metals.
SUB-INDICATOR 5.2 (Webb Level: 2 Skill/Concept):
Demonstrate Gas Tungsten Arc Welding (GTAW) process on
Steel.

INDICATOR #AWT 6: Understand and perform Shielded
Metal Arc Welding (SMAW) process
SUB-INDICATOR 6.1 (Webb Level: 2 Skill/Concept):
Understand SMAW equipment and filler metals.
SUB-INDICATOR 6.2 (Webb Level: 2 Skill/Concept):
Demonstrate knowledge of the Shielded Metal Arc Welding
(SMAW) process.

INDICATOR #AWT 7: Understand and perform Carbon Arc
cutting and gouging process
SUB-INDICATOR 7.1 (Webb Level: 2 Skill/Concept):
Understand carbon arc equipment.
SUB-INDICATOR 7.2 (Webb Level: 2 Skill/Concept):
Demonstrate Carbon Arc cutting process.
INDICATOR #AWT 8: Identify and demonstrate knowledge
of quality control of the welding process including visual
and destructive testing.

Advanced Welding Technology Proposed Standards

AWT 1: Implement welding safety practices.

Level 2: Skill/Concept	AWT 1.1 Identify and demonstrate general safety in accordance with government regulations, health standards, and company and/or school policy.
	AWT 2: Integrate core academic concepts as used in the
	welding industry.
Level 3: Strategic Thinking	AWT 2.1 Demonstrate mathematical skills related to work
	assignments.
Level 2: Skill/Concept	AWT 2.2 Communicate using welding terms and definitions
	from American National Standards Institute
	(ANSI)/American Welding Society (AWS) A3.0, Standard
	Welding Terms and Definitions.

	AWT 3: Interpret, layout, and fabricate in conformance to fabrication drawings.
Level 3: Strategic Thinking	AWT 3.1 Interpret and apply dimensions and locations of components in fabrication drawings.
Level 4: Extended Thinking	AWT 3.2 Layout and fabricate according to the fabrication drawing industry standards.

	AWT 4: Perform other advanced cutting processes.
· ·	AWT 4.1 Identify and explain the safety, parts, and operation of thermal cutting equipment
Level 2: Skill/Concept	AWT 4.2 Prepare layouts for cutting individual parts
Level 3: Strategic Thinking	AWT 4.3 Perform cuts using thermal cutting processes

	AWT 5: Perform Gas Metal Arc Welding (GMAW) process.
Level 2: Skill/Concept	AWT 5.1 Identify and understand the safety, parts, and operation of GMAW
Level 2: Skill/Concept	AWT 5.2 Prepare base metal for various welding processes.
Level 3: Strategic Thinking	AWT 5.3 Demonstrate Gas Metal Arc Welding (GMAW) on steel.

	AWT 6: Identify and demonstrate knowledge of the
	inspection of welding and cutting processes.
Level 3: Strategic Thinking	AWT 6.1 Visually inspect a weld.
Level 2: Skill/Concept	AWT 6.2 Examine thermally cut surfaces and edges for discontinuities

	AWT 7: Perform other advanced welding processes.
Level 2: Skill/Concept	AWT 7.1 Identify and understand the safety, parts, and
	operation of another advanced welding process
Level 2: Skill/Concept	AWT 7.2 Prepare base metal for various welding processes
Level 3: Strategic Thinking	AWT 7.3 Demonstrate another advanced welding process on steel

Advanced Welding Technology Current Standards

SUB-INDICATOR 8.1 (Webb Level: 3 Strategic Thinking):
Demonstrate knowledge of weld quality
INDICATOR #AWT 9: Participate in career exploration
activities
SUB-INDICATOR 9.1 (Webb Level: 2 Skill/Concept): Research
career opportunities in the welding pathways.

INDICATOR #AWT 10: Demonstrate ethical work behaviors SUB-INDICATOR 10.1 (Webb Level: 1 Recall): Follow the following required ethical practices of Manufacturing Industry

Advanced Welding Technology Proposed Standards

	AWT 8: Welding technology career exploration and
_	development.
•	AWT 8.1 Define and compare career pathways in welding technology.
Level 4: Extended Thinking	AWT 8.2 Design a personal learning plan for career interest in welding technology.
Level 2: Skill/Concept	AWT 8.3 Explain trends and issues in welding technology careers.

	AWT 9: Apply career readiness skills in the workplace as
	they relate to today's society.
Level 1: Recall	AWT 9.1 Identify and demonstrate career readiness (soft
	skills) in the workplace.