

School District of Marshfield Course Syllabus

Course Name: Metal Tech Capstone

Length of Course: 1 Year

Credit: 2

Program Goal(s):

Empower learners to be college and career ready through standards-based experiences in the classroom and career-based learning experiences with business and industry partners. Learners will engage through technology in design, building, problem-solving, repair or service, in a collaborative environment through theory and hands-on experiences.

Course Description:

Metal Tech Capstone is designed to prepare students for the world of work. It is an extremely demanding class that will push students towards their potential. Students will engage our industry partners on several activities and the projects are designed to simulate a real shop environment; including expectations. Students will be exposed to many different career opportunities within the manufacturing field and what it takes to pursue those careers and what it takes to do the job well.

Standards:		
Wisconsin Technology & Engine	eering Broad Based (BB)	
Standard	Learning Priority	Performance Indicators
BB1: Students will analyze the core	BB1.a Analyze and use	BB1.a.3.m: Identify inputs,
concepts of technology.	technological systems	processes, outputs and, at times,
		feedback components for

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		technological systems.
		BB1.a.5.h: Describe how systems
		can fail because of design flaws,
		defect parts, poorly matched parts
		or they were used beyond their
		design capabilities.
	BB1.b: Analyze and use tools and	BB1.b.3.m: Students will describe
	materials.	how resources are the things needed
		to complete a task (e.g., tools,
		machines, materials, information,
		energy, people, capital and time).
		BB1.b.4.m: Use appropriate tools to
		measure and layout a piece of
		material (e.g., length, width,
		thickness, angles, circles, arcs and
		volume) within tolerances.
		BB1.b.5.h: Select appropriate
		resources and explain how trade-
		offs between competing values,
		such as availability, cost,
		desirability and waste influenced
		their decision.
		BB1.b.6.h: Choose and perform the
		material processing operations of
		forming (e.g., bending, pressing,
		drawing, rolling), bonding (e.g.,
		gluing, soldering, brazing, spot
		welding, gas welding, arc welding),
		fastening (e.g., screws, nuts &
		bolts, rivets, clips, pins, nails) and
		finishing (e.g., surface preparation,
		cleaning, treatment, coating).
	BB1.e: Analyze, explain and use	BB1.e.4.m: Explain how quality
	control systems.	control is a planned process to
		ensure that a product, service or
		system meets established criteria.
	BB1.f: Identify and analyze	BB1.f.3.m: Identify and describe
	structures.	basic types of structures (i.e., mass,
		bearing wall, framed) as they relate
		to their function.
		BB1.f.6.h: Justify the application of
		structural materials and their trade-
		offs in the design of structures
		based on design requirements
		through optimization (i.e.,
		engineering design process).
Wisconsin Technology & Engine	eering - Manufacturing (MNF)	
Standard	Learning Priority	Performance Indicators
Standard: MNF1: Students will be	MNF1.a: Identify, select and safely	MNF1.a.4.m: Discuss health and
able to select and use	use tools, machines, products and	safety procedures in the workplace
manufacturing technologies.	systems for specific tasks.	that keep workers safe.
		MNF1.a.5.m: Use tools, materials
		and machines safely to diagnose,
		adjust and repair systems.
		MNF1.a.7.h: Identify safety and
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	health protections and procedures
	that are critical to worker well-
	being.
	MNF1.a.8.h: Use appropriate tools,
	materials, and machines to repair a
	malfunctioning system.
	MNF1.a.9.h: Select and apply the
	appropriate units and scales for
	situations involving measurement.
MFN1.b: Create and communicate	MNF.1.b.3.m: Practice appropriate
alternative solutions.	problem-solving approaches and
	critical thinking skills to on-the-job
	issues and tasks.
	MNF.1.b.4.m: Comprehend and
	engage in communication methods
	to convey ideas, concepts and
	requirements to other individuals
	and teams.
	MNF.1.b.5.h: Apply methodical
	problem-solving models which
	include input, process, outcome and
	feedback components.
MNF1.c: Demonstrate cooperation	MNF1.c.3.m: Learn how to
with others in ways to exhibit	cooperate with others in ways to
respect for individual and cultural	exhibit respect for individual and
differences and for the attitudes and	cultural differences and for the
feelings of others.	attitudes and feelings of others.
reemigs of outers.	MNF1.c.4.m: Recognize
	characteristics and benefits of
	teamwork, leadership and
	citizenship in the school,
	community and manufacturing
	settings.
	MNF1.c.5.m: Participate in the
	student organization SkillsUSA
	competitive career development
	events to enrich academic skills,
	encourage career choices and
	contribute to employability.
	MNF1.c.6.h: Learn how to
	cooperate with others in ways to
	exhibit respect for individual and
	cultural differences and for the
	attitudes and feelings of others. MNF1.c.7.h: Recognize
	characteristics and benefits of
	teamwork, leadership and
	citizenship in the school,
	community and manufacturing
	settings.
	MNF1.c.8.h: Participate in the
	student organization SkillsUSA
	competitive career development
	events to enrich academic skills,
	encourage career choices and
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	contribute to employability.
	MNF1.c.10.h: Recognizing how to bring together projects individually
	and in teams for effective
	performance and the achievement
	of objectives.
MNF1.d: Select, use and identify	MNF1.d.3.m: Identify
manufacturing processes, such as	manufactured goods as durable and
casting, forming, machining,	nondurable.
joining, rapid manufacturing (CNC)	MNF1.d.4.m: Identify the
and treating/coating.	manufacturing process; including
	the designing, development, making and servicing of products
	and systems.
	MNF1.d.5.h: Recognize durable
	goods are designed to operate for a
	long period of time, while
	nondurable goods are designed to
	operate for a short period of time.
	MNF1.d.6.h: Demonstrate the
	interchangeability of parts increases
	the effectiveness of manufacturing
MNF1.e: Select, use and identify	processes. MNF1.e.4.m: Define the purposes
manufacturing systems.	of marketing.
manufacturing systems.	MNF1.e.5.m: Identify the sub-
	components of a manufacturing
	system.
	MNF1.e.6.h: Recognize
	manufacturing systems may be
	classified into types, such as
	customized production, batch
	production and continuous production.
	MNF1.e.7.h: Use marketing to
	establish a product's identity,
	conduct research on its potential,
	advertise it, distribute it and sell it.
	MNF1.e.8.h: Use a manufacturing
	system to produce a product.
MNF1.f: Select and use	MNF1.f.4.m: Define harvesting,
manufacturing technologies.	drilling and mining processes. MNF1.f.5.m: Discuss how
	technologies are used to modify or
	alter chemical substances.
	MNF1.f.6.m: Describe the
	relationship between materials and
	manufacturing.
	MNF1.f.7.h: Recognize servicing
	keeps products in good operating
	condition.
	MNF1.f.8.h: Recognize
	technologies provide a means for humans to alter or modify materials
	and to produce products.
	MNF1.f.9.h: Identify materials have
	ivityi 1.1.7.11. Identity materials have

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	different qualities and may be
	classified as natural, synthetic or
	mixed and their effects on our
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MNF1.g: Analyze and use GMAW,	
GTAW, SMAW and oxy-acetylene	MNF1.g.3.m: Analyze the different
welding.	processes needed to fuse metal
	together (i.e., MIG, TIG, oxy-
	acetylene, Arc, etc.).
	MNF1.g.4.m: Identify various types
	of metal, both ferrous and non- ferrous.
	MNF1.g.5.m: Identify the
	importance of safety and different
	types of safety equipment needed
	for different welding processes.
	MNF1.g.6.m: Demonstrate basic
	welding joints and processes used
	to weld them.
	MNF1.g.7.m: Discuss how robotics
	and automation play a role in
	manufacturing.
	MNF1.g.8.h: Demonstrate the
	ability to choose proper welding
	supplies given the process.
	MNF1.g.9.h: Identify different
	types of welding machines.
	MNF1.g.10.h: Demonstrate
	appropriate use of welding
	blueprint symbols and codes used in industry.
	MNF1.g.11.h: Demonstrate safety
	and chose the proper safety
	equipment given the process being
	used (i.e., oxy-acetylene, GMAW,
	SMAW, GTAW, etc.).
	MNF1.g.12.h: Identify different
	types of welding joints and be able
	to demonstrate the ability perform
	the welds (i.e., butt, corner, edge,
	lap, tee).
	MNF1.g.13.h: Identify the different
	type of welding positions and be
	able to demonstrate the ability to
	perform the welds (i.e., flat,
NOTE: 1 A 1	horizontal, vertical and overhead).
MNF1.h: Analyze and use metal	MNF1.h.2.m: Identify the
and manufacturing cutting	importance of safety and different
operations.	types of safety equipment needed for different metal and
	manufacturing cutting processes.
	MNF1.h.3.m: Compare and contrast
	different metal and manufacturing
	cutting operations.
	MNF1.h.4.m: Demonstrate
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different metal and manufacturing cutting operations. MNF1.h.5.m: Discuss how robotics and automation play a role in manufacturing cutting operations. MNF1.h.6.h: Demonstrate the proper use and proper way to set-up and close down oxy-acetylene equipment and check for leaking gases. MNF1.h.7.h: Demonstrate the proper safety and use with plasma cutting equipment. MNF1.h.8.h: Demonstrate how to use oxy-acetylene and plasma MNF1.h.9.h: Compare the pros and cons with plasma cutting and oxyacetylene cutting manufacturing operations and analyze other cutting operations used in industry. MNF1.h.10.h: Analyze the metallurgical effects heat has on metal during a cutting process or in forming and heat treating.

Wisconsin Common Career Technical Standards (WCCTS)-Creativity, Critical Thinking, Communication and Collaboration (C)

Standard	Learning Priority	Performance Indicators
Standard: 4C1: Students will think	4C1.a: Develop original solutions,	4C1.a.4.m: Analyze elements of a
and work creatively to develop	products and services to meet a given	problem to develop creative
innovative solutions to	need.	solutions.
problems and opportunities.		4C1.a.6.m: Describe how past
		experiences can inform current
		problem solving.
		4C1.a.7.h: Develop original ways to
		solve a given problem.
		4C1.a.8.h: Design a product or
		service that could fulfill a human
		need or desire.
		4C1.a.9.h: Apply past experiences to
		current problems in developing
		innovative solutions.
	4C1.b: Work creatively with others to	
	develop solutions, products and	people can develop better solutions
	services.	than an individual.
		4C1.b.5.m: Explain how multiple
		people and perspectives can develop
		better ideas than an individual.
		4C1.b.6.m: Explain how multiple
		people and perspectives can improve
		an existing product or process better
		than an individual.
		4C1.b.7.h: Incorporate the skills and
		experiences of others to develop a
		new solution to a problem.

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		4C1.b.8.h: Work as part of a team to
		design a product or service that could fulfill a human need or desire.
		4C1.b.9.h: Work as part of a team to
		improve an existing product or
		process.
Standard: 4C2: Students will	4C2.a: Develop effective resolutions	4C2.a.5.m: Analyze symptoms to
formulate and defend judgments and	for a given problem, decision or	identify the root cause of a problem.
decisions by employing critical	opportunity using available	4C2.a.6.m: Develop multiple
thinking skills.	information.	resolutions for a given problem,
		decision or opportunity.
		4C2.a.7.m: Identify problems that
		became worse due to poorly thought
		out or poorly informed solutions. 4C2.a.8.m: Explain how
		implementation of a solution or
		action may affect one or more
		corresponding systems.
		4C2.a.9.m: Explain how different
		resolutions may be appropriate under
		different circumstances.
		4C2.a.10.m: Explain the process for
		choosing an action or making a
		decision.
		4C2.a.11.h: Determine the
		information needed to address an
		identified problem.
		4C2.a.12.h: Contrast the benefits and
		drawbacks of various proposed
		resolutions to a given situation.
		4C2.a.13.h: Predict how an action
		could result in unintended
		consequences, both positive and
		negative.
		4C2.a.14.h: Analyze the impact of a
		decision using a systems thinking
		model.
		4C2.a.15.h: Determine the best
		resolution for a problem, decision or
		opportunity based on given criteria.
		4C2.a.16.h: Defend an action taken
	4C2 by Davidson and investment	or a decision implemented.
	4C2.b: Develop and implement a	4C2.b.3.m: Analyze problems to
	resolution for a new situation using	determine what past experiences
	personal knowledge and experience.	might be related and relevant. 4C2.b.4.m: Analyze a problem to
		determine how it relates to existing
		knowledge.
		4C2.b.5.h: Apply past experience to
		develop a course of action for a new
		situation.
		4C2.b.6.h: Use existing knowledge to
		develop a resolution for a new
		situation, problem or opportunity.
	l .	organion, problem of opportunity.

Standard: 4C3: Students will	4C3.a: Communicate thoughts and	4C3.a.8.m: Implement effective
communicate and collaborate with	feelings with others using verbal and	listening skills in resolving a
others to accomplish tasks and	non-verbal language.	situation.
develop solutions to problems and	iioii voibai iaiiguago.	4C3.a.9.h: Develop a mutually
opportunities.		acceptable response to a question or
opportunition.		problem.
		4C3.a.11.h: Communicate effectively
		in the presence of a language barrier.
		4C3.a.12.h: Utilize effective listening
		skills in creating consensus in a
		group.
	4C3.b: Work collaboratively with	4C3.b.4.m: Use idea generating
	others.	practices as part of a group.
		4C3.b.5.m: Describe ways to
		facilitate group collaboration.
		4C3.b.6.m: Demonstrate the use of
		various tools to communicate
		effectively with an individual or a
		group. 4C3.b.7.h: Participate in group
		processes to generate consensus.
		4C3.b.8.h: Lead group processes to
		generate consensus.
	4C3.c: Use interpersonal skills to	4C3.c.5.m: Contribute to resolving
	resolve conflicts with others in an	conflicts that occur within a team or
	ethical manner.	group.
		4C3.c.6.m: Explore the ethical
		considerations of a current or
		historical action or decision.
		4C3.c.7.h: Resolve conflicts
		productively with individuals as they
		arise.
		4C3.c.8.h: Lead a team or group
		through a conflict resolution process
W' Tabe	-1 C41	to reach a productive outcome.
Standard	cal Standards (WCCTS)-Career Dev Learning Priority	Performance Indicators
Standard: CD1: Students will	CD1.a: Identify person strengths,	CD1.a.2.m: Assess personal
consider, analyze and apply an	aptitudes and passions.	strengths, aptitudes and passions
awareness of self, identity and culture		related to potential future careers
to identify skills and talents.		CD1.a.3.h: Evaluate various
		occupations and career pathways to
		identify personal, academic and
		career goals based on personal
		strengths, aptitudes and passions.
	CD1.b: Demonstrate effective	CD1.b.4.m: Identify long and short-
	decision-making, problem solving	term goals.
	and goal setting.	CD1.b.5.h: Use a decision-making
		and problem-solving model.
	CD1.c: Interact effectively with	CD1.c.7.m: Display cooperative
	others in similar and diverse teams.	behavior and identify personal
		strengths and assets in groups.
		CD1.c.11.h: Evaluate how the
	I and the second	personal strengths and assets of

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		others contribute to a cooperative
		group atmosphere.
		CD1.c.12.h: Assess how respect and
		appreciation for individual and
		cultural differences impacts group
		processes.
	CD1.d: Apply a range of relevant	CD1.d.4.m: Apply decision-making
	decision-making strategies.	strategies to personal and team
		interactions.
		CD1.d.5.h: Predict the outcome of
		various decisions on personal, social
		and career success.
		CD1.d.6.h: Evaluate the impact of
		personal decision-making strategies
		on specific outcomes.
	CD2.a: Apply academic experiences	CD2.a.2.m: Describe a diverse range
	to the world of work, inter-	of opportunities available beyond
Standard: CD2: Students will identify	relationships and the community.	high school.
the connection between educational		CD2.a.3.h: Evaluate how
achievement and work opportunities		performance and connections within
in order to reach personal and career		the learning community enhance
goals.		future opportunities.
		CD2.a.4.h: Determine those
		opportunities that best support
	GDQ1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	attainment of a specific career goal.
	CD2.b: Assess attitudes and skills	CD2.b.5.m: Apply academic
	that contribute to successful learning	information from a variety of sources
	in school and across the life span.	to enhance career preparedness and
		lifelong learning.
		CD2.b.6.m: Research local and
		regional labor market and job growth
		information to analyze career
		opportunities.
		CD2.b.7.h: Interpret and analyze the
		impact of current education, training
		and work trends on life, learning and
		career plans.
		CD2.b.8.h: Assess education and
		training opportunities to acquire new
		skills necessary for career advancement.
		CD2.b.9.h: Analyze local and
		regional labor market and job growth information to select a career
		pathway for potential advancement.
Standard: CD3: Students will create	CD3 at Investigate the world of worls	
	CD3.a: Investigate the world of work	CD3.a.5.m: Demonstrate the ability
and manage a flexible and responsive	in order to gain knowledge of self in order to make informed career	to use technology to retrieve and
individualized learning plan to meet		manage career information that
their career goals.	decisions.	inspires educational achievement.
		CD3.a.6.m: Build an ongoing
		awareness of personal abilities, skills, interests and motivation and
		determine how these fit with chosen
		career pathway.

		CD3.a.7.m: Develop an individual
		learning plan to enhance educational
		achievement and attain career goals
		based on a career pathway.
		CD3.a.9.m: Use assessment results in
		educational planning including career
		awareness.
		CD3.a.10.h: Analyze how career
		plans may be affected by personal
		growth, external events and changes
		in motivations and aspirations.
		CD3.a.11.h: Apply academic and
		employment readiness skills in work-
		based learning situations such as
		internships, shadowing and/or
		mentoring experiences.
		CD3.a.12.h: Evaluate changes in
		local, national and global
		employment trends, societal needs
		and economic conditions related to
		career planning.
		CD3.a.14.h: Implement an individual
		learning plan to maximize academic
		ability and achievement.
	CD3.b: Examine and evaluate	CD3.b.2.m: Describe educational
	opportunities that could enhance life	levels (e.g., work-based learning,
	and career plans and articulate plan to	certificate, two-year, four-year and
	guide decisions and actions.	professional degrees) and
	Daniel de la	performance skills needed to attain
		personal and career goals.
		CD3.b.3.m: Demonstrate openness to
		exploring a wide range of
		occupations and career pathways.
		CD3.b.4.h: Implement strategies for
		responding to transition and change
		with flexibility and adaptability.
		CD3.b.5.h: Evaluate the relationship
		between educational achievement and
		career development.
	CD3.c: Employ career management	CD3.c.3.m: Identify work values and
	strategies to achieve future career	needs.
	success and satisfaction.	CD3.c.4.m: Define adaptability and
		flexibility in the world of work.
		CD3.c.5.h: Determine how principles
		of equal opportunity, equity, respect,
		inclusiveness and fairness, affect
		career planning and management.
		CD3.c.6.h: Discuss how adaptability
		and flexibility, especially when
		initiating or responding to change,
		contributes to career success.
Standard: CD4: Students will identify	CD4.a: Identify and demonstrate	CD4.a.4.m: Demonstrate flexibility
and apply employability skills.		and willingness to learn new
and apply employability skills.	qualities needed to be employable.	knowledge and skills.
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CD4.a.5.m: Identify positive work-qualities typically desired in each of the career cluster's pathways. CD4.a.6.h: Evaluate how self-discipline, self-worth, positive attitude and integrity displayed in a work situation affect employment status. CD4.a.7.h: Assess how flexibility and willingness to learn new knowledge and skills affect employment status. CD4.a.8.h: Apply communication strategies when adapting to a culturally diverse environment. CD4.a.9.h: Use positive work-qualities typically desired in each of the career cluster's pathways. CD4.a.10.h: Manage work roles and responsibilities to balance them with other life roles and responsibilities. CD4.b. Demonstrate skills related to seeking and applying for employment to find and obtain a desired job. CD4.b.1 m: What the proposition in career exploration and job-seeking activities. CD4.b.5.h: Use multiple resources to locate job opportunities. CD4.b.6.h: Prepare a resume, cover letter, employment application. CD4.b.7.h: Employ critical thinking and decision-making skills to exhibit qualifications to a potential employer in an interview. CD4.c.4.h: Model behaviors in a social vs. professional setting. CD4.c.4.h: Model behaviors that demonstrate reliability and dependability. CD4.c.5.h: Valintain appropriate dress and behavior for the job to contribute to a safe and effective workplace/jobsite. CD4.c.6.h: Complete required employment forms and documentation. CD4.c.6.h: Summarize key activities necessary to retain a job in an industry. CD4.c.6.h: Tarticipate in co-curricular and community activities.	_	T
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curricular and community activities		
to enhance the school experience.		to enhance the school experience.

	nnical Standards (WCCTS)-Envir	CD4.d.6.h: Evaluate the best method to assist co-workers in accomplishing goals and tasks. CD4.d.7.h: Examine the skills required to enable students to successfully transition to post-secondary opportunities. CD4.d.8.h: Use a systematic approach to academic and career planning for students to achieve their learning, socio-cultural and work goals.
(EHS) Standard	Learning Priority	Performance Indicators
Standard: EHS1: Students will identify the importance and interrelationships of health, safety and environmental systems and evaluate the impacts of these systems on organizational performance for continuous improvement.	EHS1.a: Assess the interdependency among natural and human-built systems, including social, ecological and economic health.	EHS1.a.6.m: Compare ways in which social, ecological and economic systems have been managed. EHS1.a.7.m: Analyze the impact of personal choices regarding natural and human-built systems on future actions. EHS1.a.8.m: Evaluate the advantages and disadvantages of short-term and long-term solutions and the impacts on social, ecological and economic environments. EHS1.a.9.h: Assess systems dynamics, including constant change and carrying capacity within social, ecological and economic systems. EHS1.a.10.h: Evaluate the societal, ecological and economic costs and benefits of allocating resources in various ways. EHS1.a.11.h: Identify strategies to maintain societal, ecological and environmental health. EHS1.a.12.h: Evaluate the impact of personal choices on the interactions or interdependency between natural and human-built systems. EHS1.a.13.h: Assess how the human-built environment can be designed or modified to promote ecological and economic health and provide a better
	EHS1.b: Engage in systems thinking and inquiry processes that identify problems while analyzing the impacts of decisions made now and in the future.	quality of life. EHS1.b.4.m: Plan investigations to collect information, make predictions and offer explanations about the social, economic, and ecological questions asked. EHS1.b.5.h: Formulate a plan of action that addresses a current issue that considers the impact on social,

	economic and ecological systems
	now and in the future. EHS1.b.6.h: Communicate the results
	of an investigation of current issues'
	effects on social, economic and
	ecological systems.
EHS1.c: Develop solutions to social,	EHS1.c.5.m: Explain the political,
economic and ecological problems	legal or economic reasons for
without compromising the ability of	resolving local, state and national
future generations to meet their	social, economic or ecological issues.
needs.	EHS1.c.6.m: Develop a plan for
	personal contribution toward
	improving or maintaining some part
	of the social, economic or ecological
	system.
	EHS1.c.7.h: Analyze political,
	educational, economic and
	governmental influences on systems
	and identify the roles individuals play
	within the systems.
	EHS1.c.8.h: Explain the factors that
	contribute to the development of
	social, economic and ecological
	systems issues and policies.
	EHS1.c.9.h: Formulate a plan to
	maintain or improve some part of the
	local or regional social, economic or
	ecological system.
EHS1.d: Implement personal and	EHS1.d.5.m: Recognize and use
jobsite safety rules and regulations to	systems in school and in the
maintain and improve safe and	community that protect and enhance
healthful working conditions and	personal, environmental health and
environments.	safety.
chivinoimients.	EHS1.d.6.m: Discuss employee
	rights and responsibilities and how to
	apply them in a workplace setting.
	EHS1.d.7.h: Assess workplace
	conditions with regard to personal
	and environmental health and safety.
	EHS1.d.8.h: Identify different
	workplace systems that protect and
	enhance personal and environmental
	health and safety.
	EHS1.d.9.h: Describe employee
	rights and responsibil-ities to
	maintain workplace health and safety,
	including compliance with rules and
	laws.
	laws.

Key Vocabulary:				
Oxide	Groove Weld	OSHA	Throat	
AWS	Grain	Plasma	Legs	
Destructive Testing	Heat Affected Zone	Polarity	Weldment	

Contamination	Root	Post Flow	
Defect	Intermittent	Preheating	
Fillet Weld	Inert	Post Heating	

Topics/Content Outline- Units and Themes:

Quarter 1:

- Orientation
- Safety
- Problem Solving
- Product Development
- Advanced Finishing Techniques

Quarter 2:

- Advanced Welding Techniques
- Career Exploration

Quarter 3:

- Entrepreneurship
- Advanced Fabrication Techniques

Quarter 4:

- Advanced Machining Techniques
- Career Preparation
- Quality Control
- Advanced Sheetmetal Techniques

Primary Resource(s):			
Metalwork Technology and Practice	Machining Fundamentals, 8 th Edition		
Glencoe	Goodheart Wilcox		
ISBN: 0-02676-460-1	ISBN: 1-59070-249-2		
© 1989	© 2004		
Welding Technology Fundamentals, 3 rd			
Edition			
Goodheart Wilcox			
ISBN: 1-59070-405-3			
© 2005			