Maine Department of Education Career and Technical Education

Welding; CIP: 48.0508 American Welding Society AWS: Framework, Duties and Tasks Intersections with Maine College and Career Readiness-Mathematics Standards

	Welder: Duties. Skills. and Tasks	Mathematics Content Standards and The Eight Mathematical	Demonstration of Proficiency (Possible Evidence, Project,	Maine Learning Results- Guiding Principles, and
		Practices (CCSS)	Performance Assessment, Certification etc.)	Career and Education Development
1.	Occupational Orientation			
a. b. c. d.	Prepare time or job cards, reports or records. Perform house keeping duties. Follow verbal instructions to complete work assignments. Follow written instructions to complete work assignments.	(a) Math.F-BF.A.1a: Determine an explicit expression, a recursive process, or steps for calculation from a context.	Worksheet, journal, report	Guiding Principles A. A clear and effective communicator who: 2. Uses evidence and logic appropriately in communication. 4. Adjusts communication based on the audience B. A self-directed and lifelong learner who: 1. Recognizes the need for information and locates and evaluates resources 4. Demonstrates initiative and independence 6. Demonstrates reliability and concern for quality C. A creative and practical problem solver who: 1. Observes and evaluates situations to define problems 6. Uses information and technology to solve problems D. A responsible and involved citizen who: 2. Accepts responsibility for personal decisions and actions 3. Demonstrates ethical behavior and the moral courage to sustain it.

	Mathematics Content	Demonstration of	Maine Learning Results-
Welder:	Standards and The	Proficiency (Possible	Guiding Principles,
Duties, Skills, and Tasks	Eight Mathematical	Evidence, Project,	and
	Practices (CCSS)	Performance Assessment,	Career and Education Development
		Certification etc.)	
			Career and Education Development
			A3 Interpersonal Skills
			A4 Career and Life Roles
			B2 Skills for Individual/Personal Success in the 21 st
			Century
			B3 Education and Career Information
			C1 The Planning Process
			C2 Decision-Making
			C3 Influences on Decision-Making
			C4 Societal Needs and Changes that Influence
			Workplace Success
2. Safety and Health of Welders			
a Demonstrate proper use	NΔ		Guiding Principles
and inspection of Personal			A A clear and effective communicator who:
Protection Equipment			2. Uses evidence and logic appropriately in
(PPE).			communication
b. Demonstrate proper safe			3 Adjusts communication based on the audience
operation practices in the			A Uses a variety of modes of expression (spoken
work area.			written and visual and performing including the use
c. Demonstrate proper use			of technology to create and share the expressions)
and inspection of ventilation			B A self-directed and lifelong learner who:
equipment.			1. Recognizes the need for information and locates
d. Demonstrate proper Hot			and evaluates resources
Zone operation.			2 Applies knowledge to set goals and make
e. Demonstrate proper work			informed desisions
actions for working in			A Demonstrates initiative and independence
contined spaces.			5. Demonstrates flexibility including the ability to
I. Demonstrate proper use of			5. Demonstrates nexising including the ability to
MSDS information			C. Demonstrates reliability and concern for suclity
			o. Demonstrates reliability and concern for quality
g. Demonstrate proper			7. Uses interpersonal skills to learn and work with

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		Certification etc.)	
inspection and operation of			individuals from diverse backgrounds
equipment used for each			C. A creative and practical problem solver who:
required welding and			1. Observes and evaluates situations to define
thermal cutting process			problems
(This is best done as a part			5. Sees opportunities, finds resources and seeks
of the process module/unit			results
wolding and thormal outting			6. Uses information and technology to solve
processes)			problems
processes).			D. A responsible and involved citizen who:
			2. Frames questions, makes predictions and designs
			data/information collection and analysis strategies
			3. Identifies patterns, trends and relationships that
			apply to solutions
			6. Uses information and technology to solve
			problems
			E. An integrative and informed thinker who:
			1. Gains and applies knowledge across disciplines
			and learning contexts and to real-life situations with
			and without technology
			2. Evaluates and synthesizes information from
			multiple sources
			Career and Education Development
			A1 Self-Knowledge and Self-Concept
			A2 Beliefs and Behaviors that Lead to Success
			A3 Interpersonal Skills
			A4 Career and Life Roles
			B2 Skills for Individual/Personal Success in the 21 st
			Century
			B3 Education and Career Information
			C1 The Planning Process

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Welder:	Standards and The	Proficiency (Possible	Guiding Principles,
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		Certification etc.)	
			C2 Decision-Making
			C3 Influences on Decision-Making
3. Drawing and Welding Symb	ol Interpretation		
a. Interpret basic elements of	(a, c) Math.G-MG.A.1:	Worksheets on blueprint	Guiding Principles
a drawing or sketch.	Use geometric shapes,	and symbol readings.	B. A self-directed and lifelong who:
b. Interpret welding symbols	their measures, and		1. Recognizes the need for information and locates
information.	their properties to	Evaluate the fabrication.	and evaluates resources
c. Fabricate parts from a	describe objects (e.g.,	(weldment)	2. Applies knowledge to set goals and make
drawing or sketch.	modeling a tree trunk		informed decisions
	or a human torso as a		3. Applies knowledge in new contexts
	cylinder).*		4. Demonstrates initiative and independence
	(a, c) Math.G-MG.A.3:		5. Demonstrates flexibility including the ability to
	Apply geometric		learn, unlearn and relearn
	methods to solve		6. Demonstrates reliability and concern for quality
	design problems (e.g.,		7. Uses interpersonal skills to learn and work with
	designing an object or		individuals from diverse backgrounds learner
	structure to satisfy		C. A creative and practical problem solver who:
	physical constraints or		1. Observes and evaluates situations to define
	minimize costs;		problems
	working with		6. Uses information and technology to solve
	typographic grid		problems
	systems based on		7. Perseveres in challenging situations
	ratios).*		D. A responsible and involved citizen who:
	(a, c) Math.MP.1-8 :		2. Accepts responsibility for personal decisions and
	(1) Make sense of		actions
	problems and		6. Demonstrates awareness of personal and
	persevere in solving		community health and wellness
	them.		E. An integrative and informed thinker who:
	(2) Reason abstractly		1. Gains and applies knowledge across disciplines

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		Certification etc.)	
	and quantitatively		and learning contexts and to real-life situations with
	(3) Construct viable		and without technology
	arguments and		2. Evaluates and synthesizes information from
	critique the reasoning		multiple sources
	of others.		
	(4) Model with		Career and Education Development
	mathematics.		A2 Beliefs and Behaviors that Lead to Success
	(5) Use appropriate		A3 Interpersonal Skills
	tools strategically.		A4 Career and Life Roles
	(6) Attend to precision.		B2 Skills for Individual/Personal Success in the 21 st
	(7) Look for and make		Century
	use of structure.		B3 Education and Career Information
	(8) Look for and		C1 The Planning Process
	express regularity in		C2 Decision-Making
	repeated reasoning.		C3 Influences on Decision-Making
4. Shielded Metal Arc Welding	(SMAW)		
a. Perform safety inspections	NA		Guiding Principles
of SMAW equipment and			B. A self-directed and lifelong learner who:
accessories.			1. Recognizes the need for information and locates
b. Make minor external repairs			and evaluates resources
to SMAW equipment and			Applies knowledge to set goals and make
accessories.			informed decisions
c. Set up for SMAV			3. Applies knowledge in new contexts
d Operate SMAW equipment			4. Demonstrates initiative and independence
on carbon steel			5. Demonstrates flexibility including the ability to
e Make fillet welds in all			learn, unlearn and relearn
positions on carbon steel			6. Demonstrates reliability and concern for quality
f. Make groove welds in all			7. Uses interpersonal skills to learn and work with
positions on carbon steel.			individuals from diverse backgrounds

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		Certification etc.)	
g. Pass SMAW welder performance qualification test (2G and 3G, uphill, limited thickness test plates) on carbon steel.			 C. A creative and practical problem solver who: 1. Observes and evaluates situations to define problems 6. Uses information and technology to solve problems 7. Perseveres in challenging situations D. A responsible and involved citizen who: 2. Accepts responsibility for personal decisions and
			 Accepts responsibility for personal decisions and actions Demonstrates awareness of personal and community health and wellness E. An integrative and informed thinker who: Gains and applies knowledge across disciplines and learning contexts and to real-life situations with and without technology Evaluates and synthesizes information from multiple sources
			Career and Education Development A2 Beliefs and Behaviors that Lead to Success A3 Interpersonal Skills A4 Career and Life Roles B2 Skills for Individual/Personal Success in the 21 st Century B3 Education and Career Information C1 The Planning Process C2 Decision-Making C3 Influences on Decision-Making

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Welder:	Standards and The	Proficiency (Possible	Guiding Principles,
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	Practices (CCSS)	Performance Assessment,	Career and Education Development
		Certification etc.)	
5. Gas Metal Arc Welding (GM	AW-S, SMAW Spray Tr	ansfer)	
a. Perform safety	NA		Guiding Principles
inspections of GMAW			B. A self-directed and lifelong learner who:
equipment and accessories.			1. Recognizes the need for information and locates
b. Make minor external			and evaluates resources
repairs to GMAW			2. Applies knowledge to set goals and make
equipment and accessories.			informed decisions
c. Short Circuiting			3. Applies knowledge in new contexts
Transfer: Set up for GMAVV-			4. Demonstrates initiative and independence
S operations on carbon			5. Demonstrates flexibility including the ability to
Sleel.			learn, unlearn and relearn
a. Short Circulling			6. Demonstrates reliability and concern for quality
aquinment on carbon steel			7. Uses interpersonal skills to learn and work with
equipment on carbon steel.			individuals from diverse backgrounds
Transfer: Make fillet welds			C. A creative and practical problem solver who:
in all positions on carbon			1. Observes and evaluates situations to define
steel			problems
f. Short Circuiting			6. Uses information and technology to solve
Transfer: Make groove			problems
welds in all positions on			7. Perseveres in challenging situations
carbon steel.			D. A responsible and involved citizen who:
g. Short Circuiting			2. Accepts responsibility for personal decisions and
Transfer: Pass GMAW-S			actions
welder performance			6. Demonstrates awareness of personal and
qualification test on carbon			community health and wellness
steel.			F. An integrative and informed thinker who:
h. Spray Transfer: Set up			1 Gains and annlies knowledge across disciplines
for GMAW (spray)			and learning contexts and to real-life situations with
operations on carbon steel.			and without technology
i. Spray Transfer:			2. Evaluates and synthesizes information from
Operate GMAW (spray)			2. Evaluates and synthesizes information from

	Malala	Mathematics Content	Demonstration of	Maine Learning Results-
	Welder:	Standards and The	Proficiency (Possible	Guiding Principles,
	Duties, Skills, and Tasks	Eight Mathematical	Evidence, Project,	and
		Practices (CCSS)	Performance Assessment,	Career and Education Development
			Certification etc.)	
	equipment on carbon steel.			multiple sources
j.	Spray Transfer: Make			Career and Education Development
	fillet welds in the 1F and 2F			A2 Beliefs and Behaviors that Lead to Success
Ι.	positions on carbon steel.			A3 Interpersonal Skills
K.	Spray Transfer: Make			A4 Career and Life Roles
	groove welds in the 1G			B2 Skills for Individual/Personal Success in the 21 st
Ι.	position on carbon steel.			Century
1.	Spray Transfer: Pass			B3 Education and Career Information
	GIVIAW (spray) weider			C1 The Planning Process
	performance qualification			C2 Decision-Making
	lest on carbon steel.			C3 Influences on Decision-Making
6.	Flux Cored Arc Welding (FC	AW-G/GM. FCAW-S)		
2	Perform safety inspections	ΝΔ		Guiding Principles
а.	of FCAW equipment and			B A solf directed and lifelong learner whe:
	accessories			1. Becognizes the need for information and locates
b	Make minor external repairs			1. Recognizes the need for information and locates
	to FCAW equipment and			and evaluates resources
	accessories.			2. Applies knowledge to set goals and make
C.	Gas Shielded: Set up for			informed decisions
	FCAW-G/GM operations on			3. Applies knowledge in new contexts
	carbon steel.			4. Demonstrates initiative and independence
d.	Gas Shielded: Operate			5. Demonstrates flexibility including the ability to
	FCAW-G/GM equipment on			learn, unlearn and relearn
	carbon steel.			6. Demonstrates reliability and concern for quality
e.	Gas Shielded: Make fillet			7. Uses interpersonal skills to learn and work with
	welds in all positions on			individuals from diverse backgrounds
	carbon steel.			C. A creative and practical problem solver who:
f.	Gas Shielded: Make groove			1. Observes and evaluates situations to define
	welds in all positions on			problems
	carbon steel.			6. Uses information and technology to solve
g.	Gas Shielded: Pass FCAW-			

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		Practices (CCSS)	Performance Assessment,	Career and Education Development
			Certification etc.)	
	G/GM welder performance			problems
	qualification test on carbon			7. Perseveres in challenging situations
	steel.			D. A responsible and involved citizen who:
h.	Self-Shielded: Set up for			2. Accepts responsibility for personal decisions and
	FCAW-S operations on			actions
	carbon steel.			6. Demonstrates awareness of personal and
I.	Self-Shielded: Operate			community health and wellness
	FCAW-S equipment on			E. An integrative and informed thinker who:
:	Carbon Steel. Self Shielded: Make fillet			1. Gains and applies knowledge across disciplines
J.	welds in all positions on			and learning contexts and to real-life situations with
	carbon steel			and without technology
k	Self-Shielded: Make groove			2. Evaluates and synthesizes information from
	welds in all positions on			multiple sources
	carbon steel.			Career and Education Development
١.	Self-Shielded: Pass FCAW-			A2 Beliefs and Behaviors that Lead to Success
	S welder performance			A3 Interpersonal Skills
	qualification test on carbon			A4 Career and Life Roles
	steel.			B2 Skills for Individual/Personal Success in the 21 st
				Century
				B3 Education and Career Information
				C1 The Planning Process
				C2 Decision-Making
				C3 Influences on Decision-Making
7. (Gas Tungsten Arc Welding (GTAW)		
а.	Perform safety inspections	NA		Guiding Principles
	of GTAW equipment and			B. A self-directed and lifelong learner who:
	accessories.			1. Recognizes the need for information and locates
b.	Make minor external repairs			and evaluates resources
	to GTAW equipment and			2. Applies knowledge to set goals and make
	accessories.			informed decisions

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Welder:	Standards and The	Proficiency (Possible	Guiding Principles,
Duties, Skills, and Tasks	Eight Mathematical	Evidence, Project,	and
	Practices (CCSS)	Performance Assessment,	Career and Education Development
		Certification etc.)	
c. Carbon Steel: Set up for			3. Applies knowledge in new contexts
GTAW operations on			4. Demonstrates initiative and independence
carbon steel.			5. Demonstrates flexibility including the ability to
d. Carbon Steel: Operate			learn, unlearn and relearn
GTAW equipment on			6. Demonstrates reliability and concern for quality
carbon steel.			7. Uses interpersonal skills to learn and work with
e. Carbon Steel: Make fillet			individuals from diverse backgrounds
welds in all positions on			C. A creative and practical problem solver who:
carbon steel.			1. Observes and evaluates situations to define
f. Carbon Steel: Make groove			problems
weids in all positions on			6. Uses information and technology to solve
carbon steel.			problems
g. Carbon Steel. Pass GTAV			7. Perseveres in challenging situations
qualification test on carbon			D. A responsible and involved citizen who:
steel			2. Accepts responsibility for personal decisions and
h Austenitic Stainless Steel			actions
Set up for GTAW			6. Demonstrates awareness of personal and
operations on austenitic			community health and wellness
stainless steel.			E. An integrative and informed thinker who:
i. Austenitic Stainless Steel:			1. Gains and applies knowledge across disciplines
Operate GTAW equipment			and learning contexts and to real-life situations with
on austenitic stainless steel.			and without technology
j. Austenitic Stainless Steel:			2. Evaluates and synthesizes information from
Make fillet welds in the 1F,			multiple sources
2F and 3F positions on			Career and Education Development
austenitic stainless steel.			A2 Beliefs and Behaviors that Lead to Success
K. Austenitic Stainless Steel:			A3 Interpersonal Skills
Iviake groove weids in the			A4 Career and Life Roles
IG and 2G positions on			B2 Skills for Individual/Personal Success in the 21 st
austenitic stainless steel.			Century
I. Austenitic Stainless Steel:			Century

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Welder:	Standards and The	Proficiency (Possible	Guiding Principles,
Duties, Skills, and Tasks	Eight Mathematical	Evidence, Project,	and
	Practices (CCSS)	Performance Assessment,	Career and Education Development
		Certification etc.)	
Pass GTAW welder			B3 Education and Career Information
performance qualification			C1 The Planning Process
test on austenitic stainless			C2 Decision-Making
steel.			C3 Influences on Decision-Making
<i>m. Aluminum:</i> Set up for			es innuclices on Decision Making
GTAW operations on			
aluminum.			
n. Aluminum: Operate GTAW			
equipment on aluminum.			
o. <i>Aluminum:</i> Make fillet welds			
in the 1Fand 2F positions			
on aluminum.			
p. Aluminum: Make groove			
welds in the 1G position on			
aluminum.			
q. Aluminum: Pass GTAW			
welder performance			
qualification test on			
aluminum.			
8. Thermal Cutting Processes	1		
a. Manual Oxyfuel Cutting	NA		Career and Education Development
(OFC): Perform safety			A2 Beliefs and Behaviors that Lead to Success
inspections of manual OFC			A3 Interpersonal Skills
equipment and accessories.			A4 Career and Life Roles
b. Manual Oxyfuel Cutting			B2 Skills for Individual/Personal Success in the 21 st
(OFC): Make minor external			Century
repairs to manual OFC			B3 Education and Career Information
equipment and accessories.			C1 The Planning Process
c. Manual Oxyfuel Cutting			C2 Decision-Making
(UFC): Set up for manual			C3 Influences on Decision-Making
OFC operations on carbon			, , , , , , , , , , , , , , , , , , ,
Steel.			

	Woldon	Mathematics Content	Demonstration of	Maine Learning Results-
	Weider:	Stanuarus anu The	Fronciency (Possible	Guiding Principies,
	Duties, Skills, and Tasks	Eight Mathematical	Evidence, Project,	dilu Correct and Education Development
		Practices (CCSS)	Cortification etc.)	Career and Education Development
	Manual Our fried Outline		Certification etc.)	
a.				
	(OFC). Operate manual			
	ore equipment on carbon			
	Sleel. Manual Oxyfuel Cutting			
е.	(OEC): Perform straight			
	(OF C). Ferform straight,			
	operations in the flat and			
	borizontal positions on			
	carbon steel			
f	Manual Oxyfuel Cutting			
	(OFC); Perform shape.			
	square edge cutting			
	operations in the flat and			
	horizontal positions on			
	carbon steel.			
g.	Manual Oxyfuel Cutting			
	(OFC): Perform straight,			
	bevel edge cutting			
	operations in the flat and			
	horizontal positions on			
	carbon steel.			
h.	Manual Oxyfuel Cutting			
	(OFC): Perform scarfing			
	and gouging operations to			
	remove base and weld			
	herizontal positions on			
	carbon steel			
i	Mechanized Ovufuel			
<i>'</i> .	Cutting (OFC) (a g Track			
	Burner): Perform safety			

		Mathematics Content	Demonstration of	Maine Learning Results-
	Welder:	Standards and The	Proficiency (Possible	Guiding Principles,
	Duties, Skills, and Tasks	Eight Mathematical	Evidence, Project,	and
		Practices (CCSS)	Performance Assessment,	Career and Education Development
			Certification etc.)	
	inspections of mechanized			
	OFC equipment and			
	accessories.			
j.	Mechanized Oxyfuel			
	Cutting: Make minor			
	external repairs to			
	mechanized OFC			
	equipment and accessories.			
k.	Mechanized Oxyfuel			
	Cutting: Set up for			
	mechanized OFC			
	operations on carbon steel.			
١.	Mechanized Oxyfuel			
	Cutting: Operate			
	mechanized OFC			
	equipment on carbon steel.			
m.	Mechanized Oxyfuel			
	Cutting: Perform straight,			
	square edge cutting			
	operations in the flat			
	position on carbon steel.			
n.	Mechanized Oxyfuel			
	Cutting: Perform straight,			
	bevel edge cutting			
	operations in the flat			
	position on carbon steel.			
0.	Manual Plasma Arc Cutting			
	(PAC): Perform safety			
	inspections of manual PAC			
	equipment and accessories.			
р.	Manual Plasma Arc Cutting:			
	Make minor external repairs			

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		Certification etc.)	
to manual PAC equipment			
and accessories.			
g. Manual Plasma Arc Cutting:			
Set up for manual PAC			
operations on carbon steel,			
austenitic stainless steel			
and aluminum.			
r. Manual Plasma Arc Cutting:			
Operate manual PAC			
equipment on carbon steel,			
austenitic stainless steel,			
and aluminum.			
s. Manual Plasma Arc Cutting:			
Perform straight, square			
edge cutting operations in			
the flat and horizontal			
positions on carbon steel,			
austenitic stainless steel			
and aluminum.			
t. Manual Plasma Arc Cutting:			
Perform shape, square			
edge cutting operations in			
the flat and horizontal			
positions on carbon steel,			
austenitic stainless steel			
and aluminum.			
u. Manual Air Carbon Arc			
Cutting (CAC-A): Perform			
satety inspections of			
manual CAC-A equipment			
and accessories.			
v. Manual Air Carbon Arc			

	Welder: Duties, Skills, and Tasks	Mathematics Content Standards and The Eight Mathematical Practices (CCSS)	Demonstration of Proficiency (Possible Evidence, Project, Performance Assessment,	Maine Learning Results- Guiding Principles, and Career and Education Development
			Certification etc.)	
	Cutting: Make minor			
	external repairs to manual			
	CAC-A equipment and			
	accessories.			
w.	Manual Air Carbon Arc			
	<i>Cutting:</i> Set up for manual			
	CAC-A scarfing and			
	gouging operations on			
	carbon steel.			
Х.	Manual Air Carbon Arc			
	CAC A equipment on			
	CAC-A equipment on			
v	Manual Air Carbon Arc			
у.	Cutting: Perform scarfing			
	and gouging operations to			
	remove base and weld			
	metal in the flat and			
	horizontal positions on			
	carbon steel.			
9. \	Welding Inspection and Test	ting		
а.	Examine cut surfaces and			Guiding Principles
	edges of prepared base			A. A clear and effective communicator who:
	metal parts.			2. Uses evidence and logic appropriately in
b.	Examine tacks, root			communication
	passes, intermediate layers			4. Uses a variety of modes of expression (spoken,
	and completed welds.			written and visual and performing including the use
				of technology to create and share the expressions)
				B. A self-directed and lifelong learner who:
				2. Applies knowledge to set goals and make
				informed decisions

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		Certification etc.)	
			4. Demonstrates initiative and independence
			6. Demonstrates reliability and concern for quality
			7. Uses interpersonal skills to learn and work with
			individuals from diverse backgrounds
			C. A creative and practical problem solver who:
			1. Observes and evaluates situations to define
			problems
			D. A responsible and involved citizen who:
			2. Accepts responsibility for personal decisions and
			actions
			3. Demonstrates ethical behavior and the moral
			courage to sustain it.
			6. Demonstrates awareness of personal and
			community health and wellness
			E. An integrative and informed thinker who:
			2. Evaluates and synthesizes information from
			multiple sources
			4. Applies systems thinking to understand the
			interaction and influence of related parts on each
			other and on outcomes
			Career and Education Development
			A2 Beliefs and Behaviors that Lead to Success
			A3 Interpersonal Skills
			A4 Career and Life Roles
			B2 Skills for Individual/Personal Success in the 21 st
			Century
			B3 Education and Career Information
			C1 The Planning Process
			C2 Decision-Making
			C3 Influences on Decision-Making

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