

Woodworking Foundations			
Course: Woodworking and Design 1 and 2			Total Framework Hours up to: 180
CIP Code: 480701			Date Last Modified: 4/11/2016
Career Cluster: Manufacturing Cluster Pathway: Production			Cluster Pathway: Production

Leadership Alignment: State of Washington 21 st Century Leadership & Employability Skills Standards, as developed from Partnership for 21 st Century Skills organization, within the Career and Technical courses. Reason Effectively 2.A.1 Use various types of reasoning (inductive, deductive, etc.) as appropriate to the situation Make Judgments and Decisions 2.C.3 Synthesize and make connections between information and arguments Standards and Competencies Content Standard A: The student will demonstrate an understanding of core concepts of: course expectations, career fields, time management planning, material uses and scheduling as they pertain to the woodworking industry. Competencies Total Learning Hours for Unit : Competency Unit 1: Introduction to Woodworking and Design 1.1 Evaluate industries, organizations, and careers based on multiple sources of research and information. 1.2 Assess interest areas to determine potential career pathways or courses of study. 1.3 Develop a career plan with alternatives. 1.4 Complete job applications and related employee documents; including resume's and cover letters. 1.5 Apply job search skills to seek, evaluate, apply for, and accept employment. 1.6 Demonstrate employability skills needed to get and keep a job. Image: Completion of the set of the set on the set		COMPONENTS AND ASSESSMENTS	
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Educational Technology	1.1.3 Analyze, synthesize and ethically use information to develop a solution, make informed decisions and report results.	
L 1.8 Determine the meaning of words and phrases in oral presentations and literary and informational tex		
ReadingRST 9-10 -3 Follow precisely a complex multistep procedure when carrying out experiments, or performing technical tasks, attending to special cases or exceptions defined in the text. RST 9-10 -4 Determine the meaning of symbols, key terms, and other domain-specific words and phrases as to used in a specific scientific or technical context relevant to grades 9-10 text and topics		
Social Studies 2.1 Understands that people have to make choices between wants and needs and evaluate the outcomes choices.		
Speaking and Listening1.1.1 Applies a variety of listening strategies to accommodate the listening situation.1.1.2 Applies a variety of listening and observation skills/strategies to recall and interpret information.2.2.2 Applies skills and strategies to contribute responsibly in a group setting.		
Writing 3.1.1 Analyzes ideas, selects a manageable topic, and elaborates using specific, relevant details and/or exa 3.3.6 Uses complete sentences in writing.		

	COMPONENTS AND ASSESSMENTS
Performance Assessments: Multi	ple choice, essay, true false questions that exhibit a student's understanding of the knowledge being assessed.
Demo	nstration and application of employability skills.
Reason Effectively	
2A.1 Use various types of reasoning (inductive, deductive, etc.) as appropriate to the situation. Test taking and essay answers used weekly as part of data collection on
instruction.	
Make Judgements and Decisions	
2.C.1 Effectively analyze and evaluate evi	idence, arguments, claims and beliefs
Leadership Alignment: State of	of Washington 21 st Century Leadership & Employability Skills Standards, as developed from <i>Partnership for 21st</i>
	the Career and Technical courses.
Reason Effectively	
2.A1 Use various types of reasoning	(inductive, deductive, etc.) as appropriate to the situation
Make Judgments and Decisions	
2.C.1 Synthesize and make connection	ons between information and arguments
Communicate Clearly	
-	ctively using oral, written and nonverbal communication skills in a variety of forms and contexts
3.A.3 Use communication for a range	e of purposes (e.g. to inform, instruct, motivate and persuade)
	Standards and Competencies
Content Standard A: The stude	Standards and Competencies nt will demonstrate an understanding of core concepts of: course expectations, career fields, time management,
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Speaking and Listening1.1.1 Applies a variety of listening strategies to accommodate the listening situation.1.1.2 Applies a variety of listening and observation skills/strategies to recall and interpret information.2.2.2 Applies skills and strategies to contribute responsibly in a group setting.	
Writing 3.1.1 Analyzes ideas, selects a manageable topic, and elaborates using specific, relevant details and/or examples. 3.3.6 Uses complete sentences in writing.	

	COMPONENTS AND ASSESSMENTS
Performance Assessments: Students comple	ete written and practical safety exam covering personal safety equipment, safe shop practices and safe shop
environments.	
Be Self-Directed Learners	
8.C.3 Demonstrate commitment to learning as a	lifelong process
Interact Effectively with Others	
9.A.2 Conduct themselves in a respectable, profe	essional manner
	21 st Century Leadership & Employability Skills Standards, as developed from <i>Partnership for 21st</i>
Century Skills organization, within the Caree	r and Technical courses.
Think Creatively	
1.A.1 Use a wide range of idea creation techniqu	
1.A.2 Create new and worthwhile ideas (both in	cremental and radical concepts)
Work Creatively with Others	
1.B.1 Develop, implement and communicate net	
	nderstand that creativity and innovation is a long-term, cyclical process of small successes and frequent mistakes
Make Judgments and Decisions	
2.C.1 Effectively analyze and evaluate evidence,	, arguments, claims and beliefs
Reason Effectively	
2.A.1 Use various types of reasoning (inductive,	deductive, etc.) as appropriate to the situation
Solve Problems	
2.D.1 Solve different kinds of non-familiar probl	iems in both conventional and innovative ways
	Standards and Competencies
Content Standard C: Identify, understand of hand tools, portable power tools, station	d and perform acceptable safety practices and policies pertaining to work areas and the proper use nary equipment, and CNC machinery.
Competencies	Total Learning Hours for Unit: 5
Competency Unit 3.0	General Safety
	ealth and safety regulations that apply to specific tasks and jobs in the occupational area.
3.2 Explain procedures for documenting a	nd reporting hazards to appropriate authorities.
3.3 Illustrate a safe environment for studen	nts in the woodworking shop.
3.4 Identify, describe and demonstrate the	effective use of Material Safety Data Sheets (MSDS).
	want safety gear and personal protective equipment (PPE).
	oodworking lab; eyewash station, first aid kit, fire extinguisher, emergency shut off switches, exits.
3.7 Illustrate safe body mechanics and lifti	
	of materials, including hazardous materials, disposal, and recycling.

3.9 Describe safety practices and procedures to be followed when working around electricity.

3.10 Demonstrate proper workspace cleaning procedures.

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Aligned Washington State Standards		
Educational Technology	1.3.3 Analyze, synthesize and ethically use information to develop a solution, make informed decisions and report	
	results.	
	2.4: Acquires skills to live safely and reduce health risks.	
Health and Fitness	3.1.2 Analyzes how environmental factors impact health.	
	3.1.3 Evaluates environmental risks associated with certain occupational, residential, and recreational choices.	
Language	L 1.8 Determine the meaning of words and phrases in oral presentations and literary and informational text.	
	RST 9-10 -3 Follow precisely a complex multistep procedure when carrying out experiments, or performing	
Deading	technical tasks, attending to special cases or exceptions defined in the text.	
Reading	RST 9-10 -4 Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they	
	are used in a specific scientific or technical context relevant to grades 9-10 text and topics	
Saianaa	9-12 INQC Conclusions must be logical, based on evidence, and consistent with prior established knowledge.	
Science	9-12 APPD The ability to solve problems is greatly enhanced by use of mathematics and information technologies.	
Secial Studies	2.1 Understands that people have to make choices between wants and needs and evaluate the outcomes of those	
Social Studies	choices.	
	1.1.1 Applies a variety of listening strategies to accommodate the listening situation.	
Speaking and Listening	1.1.2 Applies a variety of listening and observation skills/strategies to recall and interpret information.	
	2.2.2 Applies skills and strategies to contribute responsibly in a group setting.	
Writing	3.1.1 Analyzes ideas, selects a manageable topic, and elaborates using specific, relevant details and/or examples.	
Writing	3.3.6 Uses complete sentences in writing.	

Performance Assessments: 1.Structured observation of the individuals or groups focusing on the prominent skills or concepts being observed. 2. Multiple choice, essay, true / false questions that exhibit a student's understanding of the knowledge being assessed. 3. Graphic representations that reveal a student's understanding of connections among ideas. Safety presentations, safety testing, project designing, plans and scheduling will be part of this assessment.

Leadership Alignment: State of Washington 21st Century Leadership & Employability Skills Standards, as developed from *Partnership for 21st Century Skills* organization, within the Career and Technical courses.

Think Creatively

- 1.A.1 Use a wide range of idea creation techniques (such as brainstorming)
- 1.A.2 Create new and worthwhile ideas (both incremental and radical concepts)

Work Creatively with Others

- 1.B.1 Develop, implement and communicate new ideas to others effectively
- 1.B.4 View failure as an opportunity to learn; understand that creativity and innovation is a long-term, cyclical process of small successes and frequent mistakes

Make Judgments and Decisions

2.C.1 Effectively analyze and evaluate evidence, arguments, claims and beliefs

Reason Effectively

2.A.1 Use various types of reasoning (inductive, deductive, etc.) as appropriate to the situation

Solve Problems

2.D.1 Solve different kinds of non-familiar problems in both conventional and innovative ways

Standards and Competencies

Content Standard B: Perform trade specific mathematical calculations for the purpose of designing, material selection, material costs, scheduling, and construction from plans. As well as identification, understanding, and use of measurement tools associated within this industry.

Comp	etencies Total Learning Hours for Unit: 14
Comp	petency Unit 4.0 Designing, Planning, and Scheduling.
4.1	Apply design elements: shapes, textures, lines and colors to create functional and attractive millwork and cabinets.
4.2	Apply principles of design, harmony, repetitions, balance and proportion.
4.3	Sketch a project using manual drawing techniques.
4.4	Use drafting tools to create a pictorial and working drawing.
4.5	Create cutting diagrams.
4.6	Read and interpret sketches, orthographic projections, and isometric diagrams to develop a manufacturing plan.
4.7	Evaluate an existing bill of materials for accuracy.
4.8	Determine the cost of materials a millwork/cabinetmaking project.
4.9	Optimize available materials from a cutting diagram.

4.10	Compare and contrast the cost of a specific project using different mater	rials
T. 10	compare and contrast the cost of a specific project using different mate	mans.

4.11 List the sequence of cutting out parts.

4.12 List the sequence of assembly.

4.13 List the sequence of finishing steps.

Aligned Washington State Standards			
Arts	1.1 Understand arts concepts and vocabulary.		
Educational Technology	1.1.1 Generate ideas and create original works for personal and group expression using a variety of digital tools.		
Language	L 1.8 Determine the meaning of words and phrases in oral presentations and literary and informational text.		
	6&7.RP Understand ratio concepts and use ratio reasoning to solve problems		
	6&7 NS Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide		
Math	rational numbers.		
	A-CED Create equations that describe numbers or relationships		
	A-REI Understand solving equations as a process of reasoning and explain the reasoning		
	Solve equations and inequalities in one variable		
	RST 9-10 -3 Follow precisely a complex multistep procedure when carrying out experiments, or performing technical		
Booding	tasks, attending to special cases or exceptions defined in the text.		
Reading	RST 9-10 -4 Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are		
	used in a specific scientific or technical context relevant to grades 9-10 text and topics		
Science	9-12 INQC Conclusions must be logical, based on evidence, and consistent with prior established knowledge.		
Science	9-12 APPD The ability to solve problems is greatly enhanced by use of mathematics and information technologies.		
Social Studies	2.1 Understands that people have to make choices between wants and needs and evaluate the outcomes of those		
Social Studies	choices.		
Writing	3.1.1 Analyzes ideas, selects a manageable topic, and elaborates using specific, relevant details and/or examples.		
winnig	3.3.6 Uses complete sentences in writing.		

Performance Assessments: 1.Structured observation of the individuals or groups focusing on the prominent skills or concepts being observed. 2. Multiple choice, essay, true / false questions that exhibit a student's understanding of the knowledge being assessed. 3. Graphic representations that reveal a student's understanding of connections among ideas. Through paper layout assignments and measurement exercises students will be trained on tools needed for this assessment/unit.

Leadership Alignment: State of Washington 21st Century Leadership & Employability Skills Standards, as developed from *Partnership for 21st Century Skills* organization, within the Career and Technical courses.

Think Creatively

- 1.A.1 Use a wide range of idea creation techniques (such as brainstorming)
- 1.A.2 Create new and worthwhile ideas (both incremental and radical concepts)

Work Creatively with Others

- 1.B.1 Develop, implement and communicate new ideas to others effectively
- 1.B.4 View failure as an opportunity to learn; understand that creativity and innovation is a long-term, cyclical process of small successes and frequent mistakes

Make Judgments and Decisions

2.C.1 Effectively analyze and evaluate evidence, arguments, claims and beliefs

Reason Effectively

2.A.1 Use various types of reasoning (inductive, deductive, etc.) as appropriate to the situation

Solve Problems

2.D.1 Solve different kinds of non-familiar problems in both conventional and innovative ways

Standards and Competencies

Content Standard B: Perform trade specific mathematical calculations for the purpose of designing, material selection, material costs, scheduling, and construction from plans. As well as identification, understanding, and use of measurement tools associated within this industry.

Comp	Competencies Total Learning Hours for Unit: 10		
Com	Competency Unit 5.0: Measuring and Layout		
5.1	Accurately read fractional measured	ements to 1/16 th of an inch.	
5.2	Accurately and efficiently manipulate common fractions.		
5.3	Accurately measure an object using the metric scale.		
5.4	Differentiate between the standard inch and metric scales.		
5.5	Identify and select the proper measuring and layout tools needed for a specific task.		
5.6	Demonstrate accurate use of common measuring and layout tools.		
Aligned Washington State Standards			
Educa	Educational Technology 1.3.4 Use multiple processes and diverse perspectives to explore alternative solutions.		
Langu	anguage L 1.8 Determine the meaning of words and phrases in oral presentations and literary and informational text.		

	6&7.RP Understand ratio concepts and use ratio reasoning to solve problems	
	6&7 NS Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide	
	rational numbers.	
	Quantities	
	Reason quantitatively and use units to solve problems. N -Q	
Math	1. Use units as a way to understand problems and to guide the solution of multi-step problems; choose and interpret	
Math	units consistently in formulas; choose and interpret the scale and the origin in graphs and data displays.	
	2. Define appropriate quantities for the purpose of descriptive modeling.	
	3. Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.	
	A-CED Create equations that describe numbers or relationships	
	A-REI Understand solving equations as a process of reasoning and explain the reasoning	
	Solve equations and inequalities in one variable	
Reading	RST 9-10 -4 Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are	
Reading	used in a specific scientific or technical context relevant to grades 9-10 text and topics	
Science	9-12 INQC Conclusions must be logical, based on evidence, and consistent with prior established knowledge.	
Science	9-12 APPD The ability to solve problems is greatly enhanced by use of mathematics and information technologies.	
	1.1.1 Applies a variety of listening strategies to accommodate the listening situation.	
Speaking and Listening	1.1.2 Applies a variety of listening and observation skills/strategies to recall and interpret information.	
	2.2.2 Applies skills and strategies to contribute responsibly in a group setting.	

	COMPONENTS AND ASSESSMENTS	
	e Assessments: 1.Structured observation of the individuals or groups focusing on the prominent skills or concepts being observed. 2.	
Multiple choice, essay, true / false questions that exhibit a student's understanding of the knowledge being assessed. 3. Graphic representations that		
reveal a student's understanding of connections among ideas. Plan calculation of materials (board footage) and time needed will be assessed as part		
	nathematics unit.	
	its, 3x5 cards and other manipulatives will be used to assess the students understanding of items 6.1 through 6.9.	
	Alignment: State of Washington 21 st Century Leadership & Employability Skills Standards, as developed from <i>Partnership for 21st</i>	
•	s organization, within the Career and Technical courses.	
Use Systems 7	C C C C C C C C C C C C C C C C C C C	
2	how parts of a whole interact with each other to produce overall outcomes in complex	
Solve Problem		
	fferent kinds of non-familiar problems in both conventional and innovative ways	
•	and ask significant questions that clarify various points of view and lead to better solutions	
	age Information ormation accurately and creatively for the issue or problem at hand	
4.D.1 Use mit	simation accurately and creatively for the issue of problem at hand	
	Standards and Competencies	
Content Star	ndard B: Perform trade specific mathematical calculations for the purpose of designing, material selection, material costs,	
	and construction from plans. As well as identification, understanding, and use of measurement tools associated within this	
industry.		
Competencie		
	cy Unit 6.0 Applied Mathematics	
6.1	Accurately calculate board footage and square footage using an algebraic formula.	
6.2	Determine an accurate estimate of material needed through plan interpretation.	
6.3	Add, subtract, multiply, and divide whole numbers with and without a calculator.	
6.4	Add, subtract, multiply, and divide fractions.	
6.5	Add, subtract, multiply, and divide decimals.	
6.6	Convert decimals to fractions and fractions to decimals with and without a calculator.	
6.7	Recognize the basic geometrical shapes used in the woodworking industry.	
6.8	Recognize common angles used in the woodworking industry.	
6.9	Demonstrate geometrical theorems used to determine if a project is square.	
	Aligned Washington State Standards	
Educational		
Technology	1.3.4 Use multiple processes and diverse perspectives to explore alternative solutions.	
Language	L 1.8 Determine the meaning of words and phrases in oral presentations and literary and informational text.	
Math	6&7.RP Understand ratio concepts and use ratio reasoning to solve problems	
	6&7 NS Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.	
ma haral	[Tuno horo] [Tuno h	

	A-CED Create equations that describe numbers or relationships
	A-REI Understand solving equations as a process of reasoning and explain the reasoning
	Solve equations and inequalities in one variable
	1. Use units as a way to understand problems and to guide the solution of multi-step problems; choose and interpret units consistently in formulas;
	choose and interpret the scale and the origin in graphs and data displays.
	2. Define appropriate quantities for the purpose of descriptive modeling.
	3. Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.
	RST 9-10 -3 Follow precisely a complex multistep procedure when carrying out experiments, or performing technical tasks, attending to special
Reading	cases or exceptions defined in the text.
Reading	RST 9-10 -4 Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific
	or technical context relevant to grades 9-10 text and topics
Science	9-12 INQC Conclusions must be logical, based on evidence, and consistent with prior established knowledge.
Science	9-12 APPD The ability to solve problems is greatly enhanced by use of mathematics and information technologies.
Speaking	1.1.1 Applies a variety of listening strategies to accommodate the listening situation.
and	1.1.2 Applies a variety of listening and observation skills/strategies to recall and interpret information.
Listening	2.2.2 Applies skills and strategies to contribute responsibly in a group setting.

Performance Assessments: The student will identify hardwoods and softwoods. The student will identify various sheet goods and describe their characteristics and uses. The student will be able to identify and describe the characteristic and uses of various solid surface and laminate materials. The student will identify various veneers and describe their characteristics and uses. Leadership Alignment: State of Washington 21st Century Leadership & Employability Skills Standards, as developed from Partnership for 21st Century Skills organization, within the Career and Technical courses. **Solve Problems** 2.D.1 Solve different kinds of non-familiar problems in both conventional and innovative ways Adapt to Change 7.A.1 Adapt to varied roles, jobs responsibilities, schedules and contexts **Be Self-Directed Learners** 8.C.1 Go beyond basic mastery of skills and/or curriculum to explore and expand one's own learning and opportunities to gain expertise Standards and Competencies Content Standard A: The student will demonstrate an understanding of core concepts of: course expectations, career fields, time management, planning, material uses and scheduling as they pertain to the woodworking industry. Competencies **Total Learning Hours for Unit: 7 Competency Unit 7.0** Wood Characteristics and Terminology Define the difference between hardwoods and softwoods. 7.1 Identify a minimum of five (5) species of hardwood and its characteristics that are common to the millwork and cabinet industry. 7.2 7.3 Identify a minimum of five (5) species of softwood and its characteristics that are common to the millwork and cabinet industry. 7.4 Identify common defects found in wood and list possible solutions. 7.5 Identify a minimum of four (4) types of panel products used in the woodworking industries. Explain the use of various panel products and their uses in the woodworking industries. 7.6 Describe the cutting and handling techniques used for sheet goods. 7.7 7.8 Compare and contrast the advantages and disadvantages of sheet goods versus solid wood stock. 7.9 Identify the types of pattern matching in veneers. Aligned Washington State Standards 1.1 Understand arts concepts and vocabulary Arts L 1.8 Determine the meaning of words and phrases in oral presentations and literary and informational text. Language 6&7.RP Understand ratio concepts and use ratio reasoning to solve problems 6&7 NS Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers. Math A-CED Create equations that describe numbers or relationships A-REI Understand solving equations as a process of reasoning and explain the reasoning RST 9-10 -4 Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or Reading technical context relevant to grades 9-10 text and topics

COMPONENTS AND ASSESSMENTS

Science	9-12 INQC Conclusions must be logical, based on evidence, and consistent with prior established knowledge. 9-12 APPD The ability to solve problems is greatly enhanced by use of mathematics and information technologies.	
Social Studies	.1 Understands that people have to make choices between wants and needs and evaluate the outcomes of those choices.	
Speaking	1.1.1 Applies a variety of listening strategies to accommodate the listening situation.	
and	1.1.2 Applies a variety of listening and observation skills/strategies to recall and interpret information.	
Listening	2.2.2 Applies skills and strategies to contribute responsibly in a group setting.	
Writing	3.1.1 Analyzes ideas, selects a manageable topic, and elaborates using specific, relevant details and/or examples.	
Witting	3.3.6 Uses complete sentences in writing.	

	COMPONENTS AND ASSESSMENTS		
demonstr	ance Assessments: Students will pass written identification assessments, performance based safety hand tool. In addition, students will rate safe and proper use of hand tools for an assigned task. Students will start with a 2x4 project or equal test block to work through the necess 8.1 through 8.4.2.		
Leaders	hip Alignment: State of Washington 21 st Century Leadership & Employability Skills Standards, as developed from <i>Partnership for 21st</i>		
	Skills organization, within the Career and Technical courses.		
Think Cr	eatively		
1.A.1 Us	e a wide range of idea creation techniques (such as brainstorming)		
1.A.2 Cre	eate new and worthwhile ideas (both incremental and radical concepts)		
	atively with Others		
	velop, implement and communicate new ideas to others effectively		
	ew failure as an opportunity to learn; understand that creativity and innovation is a long-term, cyclical process of small successes and frequent mistakes		
-	ectively analyze and evaluate evidence, arguments, claims and beliefs		
Reason E	ffectively		
2.A.1 Us	e various types of reasoning (inductive, deductive, etc.) as appropriate to the situation		
Solve Pro			
2.D.1 Sol	ve different kinds of non-familiar problems in both conventional and innovative ways		
	Standards and Competencies		
	Standard C: Identify, understand and perform acceptable safety practices and policies pertaining to work areas and the proper use tools, portable power tools, stationary equipment, and CNC machinery.		
Compete	ncies Total Learning Hours for Unit: 5		
Compet	tency Unit 8.0 Hand Tool Safety		
8.1	The student will demonstrate the proper use of measuring and layout tools necessary to complete a project.		
8.1.1	Demonstrate the accurate use of common measuring and layout tools.		
8.1.2	Select the proper layout tools for specific tasks.		
8.2	The student will demonstrate the proper use of cutting tools.		
8.2.1	Select the proper cutting tools for specific operations.		
8.2.2	Demonstrate the safe and proper use of specific hand-cutting tools.		
8.2.3	Select tools for cutting curves and straight cuts.		
8.2.4	Select the most appropriate blade for a given operation.		
8.3	The student will demonstrate the proper use of striking tools.		
8.3.1	Demonstrate the safe and proper use of specific striking tools.		
8.4	The student will demonstrate the proper use of hand-shaping tools.		
8.4.1	Select the proper hand-shaping tools for specific operations.		

8.4.2	Demonstrate the safe and proper use of hand-shaping tools.		
		Aligned Washington State Standards	
Educational Technology		 2.1.1 Practice personal safety 2.2.1 Develop skills to use technology effectively 2.2.2 Use a variety of hardware to support learning 2.3.2 Select and use online applications. 	
Health and Fitness 3.1.3 Evaluates environmental risks associated with		2.4.2 Evaluates emergency situations, ways to prevent injuries, and demonstrates skills to respond appropriately and safely.3.1.3 Evaluates environmental risks associated with certain occupational, residential, and recreational choices.2.4: Acquires skills to live safely and reduce health risks.	
Language	Language L 1.8 Determine the meaning of words and phrases in oral presentations and literary and informational text.		
Math	th 6&7.RP Understand ratio concepts and use ratio reasoning to solve problems		
Reading		RST 9-10 -3 Follow precisely a complex multistep procedure when carrying out experiments, or performing technical tasks, attending to special cases or exceptions defined in the text. RST 9-10 -4 Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 9-10 text and topics	
Science		9-12 INQC Conclusions must be logical, based on evidence, and consistent with prior established knowledge.9-12 APPD The ability to solve problems is greatly enhanced by use of mathematics and information technologies.	
Speaking and Listening1.1.1 Applies a variety of listening strategies to accommodate the listening situation.1.1.2 Applies a variety of listening and observation skills/strategies to recall and interpret information.2.2.2 Applies skills and strategies to contribute responsibly in a group setting.			
Writing	3.1.1 Analyzes ideas, selects a manageable topic, and elaborates using specific, relevant details and/or examples		

COMPONENTS AND ASSESSMENTS **Performance Assessments:** Students will pass written safety tests, performance based safety tests for each piece of power equipment. In addition students will demonstrate safe and proper operation of stationary power machinery for an assigned task. Leadership Alignment: State of Washington 21st Century Leadership & Employability Skills Standards, as developed from Partnership for 21st Century Skills organization, within the Career and Technical courses. Think Creatively 1.A.1 Use a wide range of idea creation techniques (such as brainstorming) 1.A.2 Create new and worthwhile ideas (both incremental and radical concepts) Work Creatively with Others 1.B.1 Develop, implement and communicate new ideas to others effectively 1.B.4 View failure as an opportunity to learn; understand that creativity and innovation is a long-term, cyclical process of small successes and frequent mistakes Make Judgments and Decisions 2.C.1 Effectively analyze and evaluate evidence, arguments, claims and beliefs **Reason Effectively** 2.A.1 Use various types of reasoning (inductive, deductive, etc.) as appropriate to the situation Solve Problems 2.D.1 Solve different kinds of non-familiar problems in both conventional and innovative ways Standards and Competencies Content Standard C: Identify, understand and perform acceptable safety practices and policies pertaining to work areas and the proper use of hand tools, portable power tools, stationary equipment, and CNC machinery. Competencies **Total Learning Hours for Unit: 15** Competency Unit 9.0: **Stationary Machine Safety** Complete all safety training for each machine listed below. 9.1.1 Demonstrate ability to accurately set up each machine for standard operations. 9.1.2 9.1.3 Perform safe common operations on each machine listed below. 9.1.3 A Mitersaw 9.1.3 B Planer 9.1.3 C Jointer 9.1.3 D Tablesaw 9.1.3 E Drillpress 9.1.3 F Bandsaw 9.1.3 G Scrollsaw 9.1.3 H **Router** Table

9.1.3 I

9.1.3 J

Belt / Disc Sander

Spindle Sander

9.1.3 K	Wide Belt Sander	
9.1.3 L	Wood Lathe	
	Aligned Washington State Standards	
Arts	1.1 Understand arts concepts and vocabulary	
	2.1.1 Practice personal safety	
Educational	2.2.1 Develop skills to use technology effectively	
Technology	2.2.2 Use a variety of hardware to support learning	
	1.3.3 Analyze, synthesize and ethically use information to develop a solution, make informed decisions and report results.	
	2.4: Acquires skills to live safely and reduce health risks.	
Health and	2.4.2 Evaluates emergency situations, ways to prevent injuries, and demonstrates skills to respond appropriately and safely.	
Fitness	3.1.2 Analyzes how environmental factors impact health.	
	3.1.3 Evaluates environmental risks associated with certain occupational, residential, and recreational choices.	
Language	L 1.8 Determine the meaning of words and phrases in oral presentations and literary and informational text.	
	6&7.RP Understand ratio concepts and use ratio reasoning to solve problems	
	6&7 NS Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.	
Math	A-CED Create equations that describe numbers or relationships	
	A-REI Understand solving equations as a process of reasoning and explain the reasoning	
	Solve equations and inequalities in one variable	
	RST 9-10 -3 Follow precisely a complex multistep procedure when carrying out experiments, or performing technical tasks, attending to special	
Reading	cases or exceptions defined in the text.	
Reading	RST 9-10 -4 Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or	
	technical context relevant to grades 9-10 text and topics	
Science	9-12 INQC Conclusions must be logical, based on evidence, and consistent with prior established knowledge.	
	9-12 APPD The ability to solve problems is greatly enhanced by use of mathematics and information technologies.	
Social Studies	2.1 Understands that people have to make choices between wants and needs and evaluate the outcomes of those choices.	
Speaking	1.1.1 Applies a variety of listening strategies to accommodate the listening situation.	
and	1.1.2 Applies a variety of listening and observation skills/strategies to recall and interpret information.	
Listening	2.2.2 Applies skills and strategies to contribute responsibly in a group setting.	
Writing	3.1.1 Analyzes ideas, selects a manageable topic, and elaborates using specific, relevant details and/or examples.	
willing	3.3.6 Uses complete sentences in writing.	

COMPONENTS AND ASSESSMENTS
rformance Assessments: Students will pass written safety tests, performance based safety tests for each piece of portable power tools. In
dition students will demonstrate safe and proper operation of portable power tools for an assigned task.
adership Alignment: State of Washington 21st Century Leadership & Employability Skills Standards, as developed from Partnership for 21st
ntury Skills organization, within the Career and Technical courses.
ink Creatively
1 Use a wide range of idea creation techniques (such as brainstorming)
.2 Create new and worthwhile ideas (both incremental and radical concepts)
ork Creatively with Others
.1 Develop, implement and communicate new ideas to others effectively
.4 View failure as an opportunity to learn; understand that creativity and innovation is a long-term, cyclical process of small successes and frequent mista
ke Judgments and Decisions
.1 Effectively analyze and evaluate evidence, arguments, claims and beliefs
ason Effectively
.1 Use various types of reasoning (inductive, deductive, etc.) as appropriate to the situation
lve Problems
0.1 Solve different kinds of non-familiar problems in both conventional and innovative ways
Standards and Competencies
ontent Standard C: Identify, understand and perform acceptable safety practices and policies pertaining to work areas and the proper e of hand tools, portable power tools, stationary equipment, and CNC machinery.
mpetencies Total Learning Hours for Unit: 10
ompetency Unit 10.0: Portable Power Tool Safety

Competencie	Total Learning Hours for Onit: To	
Competen	Competency Unit 10.0: Portable Power Tool Safety	
10.1	Complete all safety training for each machine listed below.	
10.2	Demonstrate ability to accurately set up each machine for standard operations.	
10.3	Perform safe common operations on each machine listed below.	
10.3 A	Circular Saw	
10.3 B	Saber Saw (Jig Saw)	
10.3 C	Corded Drill	
10.3 D	Cordless Drill	
10.3 E	Router	
10.3 F	Belt Sander	
10.3 G	Finishing Sander	
10.3 H	Biscuit Joiner	
10.3 I	Pneumatic Nailers	

	Aligned Washington State Standards		
Arts	1.1 Understand arts concepts and vocabulary		
Educational	1.3.3 Analyze, synthesize and ethically use information to develop a solution, make informed decisions and report results.		
	2.1.1 Practice personal safety		
Technology	2.2.1 Develop skills to use technology effectively		
	2.2.2 Use a variety of hardware to support learning		
	2.4: Acquires skills to live safely and reduce health risks.		
Health and	2.4.2 Evaluates emergency situations, ways to prevent injuries, and demonstrates skills to respond appropriately and safely.		
Fitness	3.1.2 Analyzes how environmental factors impact health.		
	3.1.3 Evaluates environmental risks associated with certain occupational, residential, and recreational choices.		
Language	RST.7 Integrate and evaluate multiple sources if information presented in diverse formats, and media (e.g. quantitative data, video, multimedia in		
Languago	order to address a question or solve a problem.		
	6&7.RP Understand ratio concepts and use ratio reasoning to solve problems		
	6&7 NS Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.		
Math	A-CED Create equations that describe numbers or relationships		
matri	A-REI Understand solving equations as a process of reasoning and explain the reasoning		
	Solve equations and inequalities in one variable		
	Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.		
	RST 9-10 -3 Follow precisely a complex multistep procedure when carrying out experiments, or performing technical tasks, attending to special		
Reading	cases or exceptions defined in the text.		
	RST 9-10 -4 Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific		
	or technical context relevant to grades 9-10 text and topics		
Science	9-12 INQC Conclusions must be logical, based on evidence, and consistent with prior established knowledge.		
	9-12 APPD The ability to solve problems is greatly enhanced by use of mathematics and information technologies.		
Social	2.1 Understands that people have to make choices between wants and needs and evaluate the outcomes of those choices.		
Studies	1 1 1 Applies a variety of listening structuries to accommodate the listening situation		
Speaking and	1.1.1 Applies a variety of listening strategies to accommodate the listening situation. 1.1.2 Applies a variety of listening and observation skills/strategies to recall and interpret information.		
Listening	2.2.2 Applies skills and strategies to contribute responsibly in a group setting.		
Listening	3.1.1 Analyzes ideas, selects a manageable topic, and elaborates using specific, relevant details and/or examples.		
Writing			
-	3.3.6 Uses complete sentences in writing.		

	COMPONENTS AND ASSESSMENTS
	ance Assessments: Students will demonstrate knowledge and understanding of safe operation of CNC and Laser equipment, through uring of project parts.
	hip Alignment: State of Washington 21 st Century Leadership & Employability Skills Standards, as developed from <i>Partnership for 21st Skills</i> organization, within the Career and Technical courses.
1.A.1 Use	e a wide range of idea creation techniques (such as brainstorming)
	eate new and worthwhile ideas (both incremental and radical concepts) atively with Others
1.B.1 Dev	relop, implement and communicate new ideas to others effectively
	w failure as an opportunity to learn; understand that creativity and innovation is a long-term, cyclical process of small successes and frequent mistakes gments and Decisions
	ectively analyze and evaluate evidence, arguments, claims and beliefs
Reason Ef	
2.A.1 Use	e various types of reasoning (inductive, deductive, etc.) as appropriate to the situation
Solve Prob	blems
2.D.1 Solv	ve different kinds of non-familiar problems in both conventional and innovative ways
Create Me	edia Products
	derstand and utilize the most appropriate media creation tools, characteristics and conventions
Analyze N	
5.A.3 App	ply a fundamental understanding of the ethical/legal issues surrounding the access and use of information technologies
	Standards and Competencies
	Standard C: Identify, understand and perform acceptable safety practices and policies pertaining to work areas and the proper nd tools, portable power tools, stationary equipment, and CNC machinery.
Competencies Total Learning Hours for Unit: 8 Competency Unit 11.0: Computer Technology	
-	
11.1	Apply knowledge and understanding of safety standards while operating a CNC router or mill.
11.2 11.3 11.4 11.5 11.6	Demonstrate understanding of machine initialization, programming, tool selection, and hold down techniques. Demonstrate understanding and application of CAD and CAM software programs. Design and produce a project part using the CNC router. Demonstrate knowledge and understanding of safety standards while operating the Laser Engraver.

11.6 Demonstrate a knowledge of laser design software (Microsoft Publisher, CoralDraw, etc.)

11.7 Demonstrate understanding of machine initialization, programming, and operation.

11.8 Demonstrate ability to design a laser project incorporating text and graphics.

11.9 Understand and give examples of the application of computer technology in the woodworking industry.			
	Aligned Washington State Standards		
Arts	1.1 Understand arts concepts and vocabulary		
	4.5.1Understands how arts knowledge and skills are used in the world of work, including careers in the arts.		
Educational	1.3.3 Analyze, synthesize and ethically use information to develop a solution, make informed decisions and report results.		
Technology	2.2.1 Develop skills to use technology effectively.		
	2.2.2 Use a variety of hardware to support learning.		
Health and Fitness	2.4: Acquires skills to live safely and reduce health risks.		
Language	L 1.8 Determine the meaning of words and phrases in oral presentations and literary and informational text.		
	6&7.RP Understand ratio concepts and use ratio reasoning to solve problems		
	6&7 NS Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.		
	A-CED Create equations that describe numbers or relationships		
	A-REI Understand solving equations as a process of reasoning and explain the reasoning		
Math	Solve equations and inequalities in one variable		
Matri	Reason quantitatively and use units to solve problems. N -Q		
	1. Use units as a way to understand problems and to guide the solution of multi-step problems; choose and interpret units consistently in		
	formulas; choose and interpret the scale and the origin in graphs and data displays.		
	2. Define appropriate quantities for the purpose of descriptive modeling.		
	3. Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.		
	RST 9-10 -3 Follow precisely a complex multistep procedure when carrying out experiments, or performing technical tasks, attending to special		
Reading	cases or exceptions defined in the text.		
	RST 9-10 -4 Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific		
	or technical context relevant to grades 9-10 text and topics		
Science	9-12 INQC Conclusions must be logical, based on evidence, and consistent with prior established knowledge.		
_	9-12 APPD The ability to solve problems is greatly enhanced by use of mathematics and information technologies.		
Speaking	1.1.1 Applies a variety of listening strategies to accommodate the listening situation.		
and	1.1.2 Applies a variety of listening and observation skills/strategies to recall and interpret information.		
Listening	2.2.2 Applies skills and strategies to contribute responsibly in a group setting.		
Writing	3.1.1 Analyzes ideas, selects a manageable topic, and elaborates using specific, relevant details and/or examples.		
	3.3.6 Uses complete sentences in writing.		

COMPONENTS AND ASSESSMENTS Performance Assessments: Demonstrate proper selection and application of clamps, fixtures, and other hold down devices used in the woodworking industry. Project types will be but not limited to: jewelry boxes, CNC cribbage board, laser etching, cabinetry (simple base), and box frames for assessment. Leadership Alignment: State of Washington 21st Century Leadership & Employability Skills Standards, as developed from Partnership for 21st Century Skills organization, within the Career and Technical courses. Work Creatively with Others 1.B.4 View failure as an opportunity to learn; understand that creativity and innovation is a long-term, cyclical process of small successes and frequent mistakes Make Judgments and Decisions 2.C.4 Interpret information and draw conclusions based on the best analysis **Use and Manage Information** 4.B.1 Use information accurately and creatively for the issue or problem at hand **Be Self-Directed Learners** 8.C.1 Go beyond basic mastery of skills and/or curriculum to explore and expand one's own learning and opportunities to gain expertise **Produce Results** 10.B.1 Demonstrate additional attributes associated with producing high quality products Standards and Competencies Content Standard D: Identify, perform, and understand tasks demonstrating proper applications that; hold, join, and fasten materials. As well as preparation for and application of finish products. Competencies Total Learning Hours for Unit: 2 **Competency Unit 12.0: Jigs, Fixtures, and Clamps** Identify basic woodworking clamps; bar clamps, parallel clamps, quick clamps, strap clamps, etc. 12.1 12.2 Demonstrate proficiency in application of clamping devices. 12.3 Identify the application of basic woodworking jigs or fixtures; v-blocks, drilling jigs, turntables, etc. Demonstrate proficiency in the application of woodworking fixtures. 12.4 Aligned Washington State Standards L 1.8 Determine the meaning of words and phrases in oral presentations and literary and informational text. Language 6&7.RP Understand ratio concepts and use ratio reasoning to solve problems 6&7 NS Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers. Math A-CED Create equations that describe numbers or relationships

 A-REI Understand solving equations as a process of reasoning and explain the reasoning

 Reading
 RST 9-10 -3 Follow precisely a complex multistep procedure when carrying out experiments, or performing technical tasks, attending to special cases or exceptions defined in the text.

	RST 9-10 -4 Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific	
	or technical context relevant to grades 9-10 text and topics	
Science	9-12 INQC Conclusions must be logical, based on evidence, and consistent with prior established knowledge.	
Science	9-12 APPD The ability to solve problems is greatly enhanced by use of mathematics and information technologies.	
Educational	2.2.1 Develop skills to use technology effectively	
Technology	2.2.2 Use a variety of hardware to support learning	
Speaking	1.1.1 Applies a variety of listening strategies to accommodate the listening situation.	
and	1.1.2 Applies a variety of listening and observation skills/strategies to recall and interpret information.	
Listening	2.2.2 Applies skills and strategies to contribute responsibly in a group setting.	
Writing	3.1.1 Analyzes ideas, selects a manageable topic, and elaborates using specific, relevant details and/or examples.	
writing	3.3.6 Uses complete sentences in writing.	

COMPONENTS AND ASSESSMENTS		
Performance Assessments: Demonstrate proper selection and application of common woodworking glues and adhesives. Gluing project such as		
but not limited to; cutting boards, face frames, cabinets, tables, and fine art pieces.		
Leadership Alignment: State of Washington 21 st Century Leadership & Employability Skills Standards, as developed from <i>Partnership for 21st</i>		
Century Skills organization, within the Career and Technical courses.		
Work Creatively with Others		
1.B.4 View failure as an opportunity to learn; understand that creativity and innovation is a long-term, cyclical process of small successes and frequent mistakes		
Implement Innovations		
Act on creative ideas to make a tangible and useful contribution to the field in which the innovation will occur		
Make Judgments and Decisions		
2.C.2 Interpret information and draw conclusions based on the best analysis		
Collaborate with Others		
3.B.2 Exercise flexibility and willingness to be helpful in making necessary compromises to accomplish a common goal		
Use and Manage Information		
4.B.1 Use information accurately and creatively for the issue or problem at hand		
Be Self-Directed Learners		
8.C.1 Go beyond basic mastery of skills and/or curriculum to explore and expand one's own learning and opportunities to gain expertise		
Produce Results		
10.B.1 Demonstrate additional attributes associated with producing high quality products		
Standards and Competencies		
Content Standard D: Identify, perform, and understand tasks demonstrating proper applications that; hold, join, and fasten materials. As		
well as preparation for and application of finish products.		
Competencies Total Learning Hours for Unit: 2		

Osmansta			
	Competency Unit 13.0: Gluing and Laminating		
	Identify common woodworking glues and explain the advantages and disadvantages of each.		
	Demonstrate preparation steps for gluing or laminating.		
13.3	Explain possible causes of a glue joint failure.		
13.4	Compare and contrast between an adhesive and common woodworking glues.		
	Aligned Washington State Standards		
Arts	1.1 Understand arts concepts and vocabulary		
Health and Fitness	2.4: Acquires skills to live safely and reduce health risks.		
Language	L 1.8 Determine the meaning of words and phrases in oral presentations and literary and informational text.		
Math	 6&7.RP Understand ratio concepts and use ratio reasoning to solve problems 6&7 NS Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers. A-CED Create equations that describe numbers or relationships A-REI Understand solving equations as a process of reasoning and explain the reasoning Solve equations and inequalities in one variable 		
Reading	RST 9-10 -3 Follow precisely a complex multistep procedure when carrying out experiments, or performing technical tasks, attending to special cases or exceptions defined in the text. RST 9-10 -4 Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 9-10 text and topics		
Science	9-12 INQC Conclusions must be logical, based on evidence, and consistent with prior established knowledge.9-12 APPD The ability to solve problems is greatly enhanced by use of mathematics and information technologies.		
Speaking and Listening	1.1.1 Applies a variety of listening strategies to accommodate the listening situation.1.1.2 Applies a variety of listening and observation skills/strategies to recall and interpret information.2.2.2 Applies skills and strategies to contribute responsibly in a group setting.		
Writing	3.1.1 Analyzes ideas, selects a manageable topic, and elaborates using specific, relevant details and/or examples.3.3.6 Uses complete sentences in writing.		

COMPONENTS AND ASSESSMENTS
erformance Assessments: Identify and demonstrate proper application of basic woodworking joints; butt, edge, face, miter, dado, groove,
bbet. Using a simplified version of past SkillsUSA cabinetry projects or like items for production of the above joinery will be used for assessment
eadership Alignment: State of Washington 21 st Century Leadership & Employability Skills Standards, as developed from Partnership for 21 st
entury Skills organization, within the Career and Technical courses.
ork Creatively with Others
3.4 View failure as an opportunity to learn; understand that creativity and innovation is a long-term, cyclical process of small successes and frequent mista
ake Judgments and Decisions
C.3 Interpret information and draw conclusions based on the best analysis
ollaborate with Others
3.2 Exercise flexibility and willingness to be helpful in making necessary compromises to accomplish a common goal
se and Manage Information
3.1 Use information accurately and creatively for the issue or problem at hand
Self-Directed Learners
C.1 Go beyond basic mastery of skills and/or curriculum to explore and expand one's own learning and opportunities to gain expertise
oduce Results
.B.1 Demonstrate additional attributes associated with producing high quality products

Standards and Competencies

Content Standard D: Identify, perform, and understand tasks demonstrating proper applications that; hold, join, and fasten materials. As well as preparation for and application of finish products.

Competencie	Competencies Total Learning Hours for Unit: 8	
Competency Unit 14.0: Joinery		
14.1	Correctly identify a; butt, edge, face, miter, dado, groove, rabbet joints.	
14.2	Compare and contrast joints commonly used in the woodworking industrie	es, (i.e., strength, appearance and ease of construction).
14.3	Select the correct type of wood joint used for a specific application and ma	aterial.
14.4	Demonstrate the application of the 7 basic joints through project construction	ion.
	Aligned Washington State Standa	ards
Arts	1.1 Understand arts concepts and vocabulary	
Educational Technology	2.2.1 Develop skills to use technology effectively	
Health and Fitness	2.4: Acquires skills to live safely and reduce health risks.	
Language	L 1.8 Determine the meaning of words and phrases in oral presentations and literation	ary and informational text.
me herel	[Type here]	Type

	6&7.RP Understand ratio concepts and use ratio reasoning to solve problems
Math	6&7 NS Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
	A-CED Create equations that describe numbers or relationships
	A-REI Understand solving equations as a process of reasoning and explain the reasoning
	Solve equations and inequalities in one variable
	RST 9-10 -3 Follow precisely a complex multistep procedure when carrying out experiments, or performing technical tasks, attending to special
Deading	cases or exceptions defined in the text.
Reading	RST 9-10 -4 Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific
	or technical context relevant to grades 9-10 text and topics
Science	9-12 INQC Conclusions must be logical, based on evidence, and consistent with prior established knowledge.
Science	9-12 APPD The ability to solve problems is greatly enhanced by use of mathematics and information technologies.
Social Studies	2.1 Understands that people have to make choices between wants and needs and evaluate the outcomes of those choices.
Speaking	1.1.1 Applies a variety of listening strategies to accommodate the listening situation.
and	1.1.2 Applies a variety of listening and observation skills/strategies to recall and interpret information.
Listening	2.2.2 Applies skills and strategies to contribute responsibly in a group setting
Writing	3.3.6 Uses complete sentences in writing.

Performance Assessments: Identify and demonstrate proper application of mechanical fasteners used in woodworking; nails, staples, screws,
and specialty hardware. In the construction of projects like but not limited to; cutting boards (3-D and frame edge), basic base cabinets, tables, and
sheds, the use of fasteners will be assessed.
Leadership Alignment: State of Washington 21 st Century Leadership & Employability Skills Standards, as developed from Partnership for 21 st
Century Skills organization, within the Career and Technical courses.
Work Creatively with Others
1.B.4 View failure as an opportunity to learn; understand that creativity and innovation is a long-term, cyclical process of small successes and frequent mistakes
Make Judgments and Decisions

2.C.4 Interpret information and draw conclusions based on the best analysis

Solve Problems

2.D.2 Identify and ask significant questions that clarify various points of view and lead to better solutions

Collaborate with Others

3.B.2 Exercise flexibility and willingness to be helpful in making necessary compromises to accomplish a common goal

Use and Manage Information

4.B.1 Use information accurately and creatively for the issue or problem at hand

Be Self-Directed Learners

8.C.1 Go beyond basic mastery of skills and/or curriculum to explore and expand one's own learning and opportunities to gain expertise

Produce Results

10.B.1 Demonstrate additional attributes associated with producing high quality products

Standards and Competencies

Content Standard D: Identify, perform, and understand tasks demonstrating proper applications that; hold, join, and fasten materials. As well as preparation for and application of finish products.

Competencies	Competencies Total Learning Hours for Unit: 2		
Competenc	Competency Unit 15.0: Mechanical Fasteners		
15.1	Define the purposes for metallic fasteners in woodworking.		
15.2	Select the proper metallic fasteners for specific applications.		
15.3	Demonstrate the proper use of metallic fasteners for specific applications.		
	Aligned Washington State Standards		
Arts	1.1 Understand arts concepts and vocabulary		
Educational Technology	2.2.1 Develop skills to use technology effectively		
Language	L 1.8 Determine the meaning of words and phrases in oral presentations and literary and inform	ational text.	
Math	6&7.RP Understand ratio concepts and use ratio reasoning to solve problems6&7 NS Apply and extend previous understandings of operations with fractions to add, subtract	, multiply, and divide rational numbers.	

	A-CED Create equations that describe numbers or relationships	
	A-REI Understand solving equations as a process of reasoning and explain the reasoning	
	RST 9-10 -3 Follow precisely a complex multistep procedure when carrying out experiments, or performing technical tasks, attending to special	
Deading	cases or exceptions defined in the text.	
Reading	RST 9-10 -4 Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific	
	or technical context relevant to grades 9-10 text and topics	
Science	9-12 INQC Conclusions must be logical, based on evidence, and consistent with prior established knowledge.	
Science	9-12 APPD The ability to solve problems is greatly enhanced by use of mathematics and information technologies.	
Social	2.1 Understands that people have to make choices between wants and needs and evaluate the outcomes of those choices.	
Studies		
Speaking	1.1.1 Applies a variety of listening strategies to accommodate the listening situation.	
and	1.1.2 Applies a variety of listening and observation skills/strategies to recall and interpret information.	
Listening	2.2.2 Applies skills and strategies to contribute responsibly in a group setting.	
Writing	3.1.1 Analyzes ideas, selects a manageable topic, and elaborates using specific, relevant details and/or examples.	
Writing	3.3.6 Uses complete sentences in writing.	

Performance Assessments: Identify and demonstrate proper application of abrasives used in woodworking. When working through a project such as a cutting board or cabinet they will be assessed using the correct abrasives, starting from rough (60 grit) to smooth (220 grit). Sanding knowledge/direction will also assessed.

Leadership Alignment: State of Washington 21st Century Leadership & Employability Skills Standards, as developed from *Partnership for 21st Century Skills* organization, within the Career and Technical courses.

Work Creatively with Others

1.B.4 View failure as an opportunity to learn; understand that creativity and innovation is a long-term, cyclical process of small successes and frequent mistakes **Make Judgments and Decisions**

2.C.4 Interpret information and draw conclusions based on the best analysis

Collaborate with Others

3.B.2 Exercise flexibility and willingness to be helpful in making necessary compromises to accomplish a common goal

Use and Manage Information

4.B.1 Use information accurately and creatively for the issue or problem at hand

Be Self-Directed Learners

8.C.1 Go beyond basic mastery of skills and/or curriculum to explore and expand one's own learning and opportunities to gain expertise

Produce Results

10.B.1 Demonstrate additional attributes associated with producing high quality products

Standards and Competencies

Content Standard D: Identify, perform, and understand tasks demonstrating proper applications that; hold, join, and fasten materials. As well as preparation for and application of finish products.			
	Competencies Total Learning Hours for Unit: 2		
Competer	ncy Unit 16.0: Abrasives		
16.1	The student will use various abrasives to prepare a project for	r a finish.	
16.2	Identify common abrasives used in the woodworking industry	У.	
16.3	Compare and contrast the differences in grit size and paper grades used in manufacturing sandpaper.		
16.4	Select the proper grit sizes and sequences for shaping and smoothing operations.		
16.5	Comply with the health and safety factors used in working w	ith abrasives.	
	Aligned Washingt	on State Standards	
Health and Fitness	2.4: Acquires skills to live safely and reduce health risks.		
Language	L 1.8 Determine the meaning of words and phrases in oral presentation	ations and literary and informational text.	
Math	6&7 NS Apply and extend previous understandings of operations Choose a level of accuracy appropriate to limitations on measurem	with fractions to add, subtract, multiply, and divide rational numbers. ent when reporting quantities.	
Reading	RST 9-10 -3 Follow precisely a complex multistep procedure when carrying out experiments, or performing technical tasks, attending to special cases or exceptions defined in the text. RST 9-10 -4 Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 9-10 text and topics		
Science	9-12 INQC Conclusions must be logical, based on evidence, and consistent with prior established knowledge. 9-12 APPD The ability to solve problems is greatly enhanced by use of mathematics and information technologies.		
Speaking and Listening	1.1.1 Applies a variety of listening strategies to accommodate the 1.1.2 Applies a variety of listening and observation skills/strategies	istening situation.	
Writing	3.1.1 Analyzes ideas, selects a manageable topic, and elaborates us 3.3.6 Uses complete sentences in writing.	ing specific, relevant details and/or examples.	

	ce Assessments: Identify and demonstrate proper application of fillers, stains, sealers, and finishes used in the woodworking industry. ch as but not limited to those listed in previous units will be used to assess the quality finishing technique.		
Leadershi	p Alignment: State of Washington 21 st Century Leadership & Employability Skills Standards, as developed from <i>Partnership for 21st</i>		
	<i>ills</i> organization, within the Career and Technical courses.		
	Vork Creatively with Others		
	failure as an opportunity to learn; understand that creativity and innovation is a long-term, cyclical process of small successes and frequent mistakes		
	Innovations		
-	n creative ideas to make a tangible and useful contribution to the field in which the innovation will occur		
	nents and Decisions		
2.C.4 Inter	pret information and draw conclusions based on the best analysis		
Collaborate	with Others		
3.B.2 Exerc	ise flexibility and willingness to be helpful in making necessary compromises to accomplish a common goal		
	inage Information		
	nformation accurately and creatively for the issue or problem at hand		
	ected Learners		
	eyond basic mastery of skills and/or curriculum to explore and expand one's own learning and opportunities to gain expertise		
Produce Re			
10.B.1 Dem	onstrate additional attributes associated with producing high quality products		
	Standards and Competencies		
	tandard D: Identify, perform, and understand tasks demonstrating proper applications that; hold, join, and fasten materials. As		
well as pre	eparation for and application of finish products.		
Competence	ties Total Learning Hours for Unit: 5		
Compete	ncy Unit 17.0: Finishing Techniques		
17.1	Comply with the health and safety regulations required for working with woodworking stains and finishes.		
17.2	Select and apply the proper type of filler material for a specific application.		
17.3	Select the proper type of stain for a specific application.		
17.4	Demonstrate proper application methods for different types of stains.		
17.5	Select the proper type of sealer and demonstrate proper application for a specified need.		
17.6	Select material and demonstrate proper application methods for various top coat materials; wipe on, brush, or spray products.		
17.7	Explain the advantages and disadvantages associated with common finishing products; polyurethane, lacquer, varnishes, and oils.		
17.8	Demonstrate cleaning procedures for various types of sealer and finish coats.		
17.9	Review MSDS information provided for finishing materials applied.		

Aligned Washington State Standards

Arts	1.1 Understand arts concepts and vocabulary	
Educational Technology	2.2.1 Develop skills to use technology effectively	
Health and	2.1.1 Practice personal safety	
Fitness	3.1.3 Evaluates environmental risks associated with certain occupational, residential, and recreational choices.	
Language	L 1.8 Determine the meaning of words and phrases in oral presentations and literary and informational text.	
Math	6&7.RP Understand ratio concepts and use ratio reasoning to solve problems	
Wath	6&7 NS Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.	
	RST 9-10 -3 Follow precisely a complex multistep procedure when carrying out experiments, or performing technical tasks, attending to special	
Reading	cases or exceptions defined in the text.	
Reading	RST 9-10 -4 Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific	
	or technical context relevant to grades 9-10 text and topics	
Science	9-12 INQC Conclusions must be logical, based on evidence, and consistent with prior established knowledge.	
Science	9-12 APPD The ability to solve problems is greatly enhanced by use of mathematics and information technologies.	
Social Studies	2.1 Understands that people have to make choices between wants and needs and evaluate the outcomes of those choices.	
Speaking	1.1.1 Applies a variety of listening strategies to accommodate the listening situation.	
and	1.1.2 Applies a variety of listening and observation skills/strategies to recall and interpret information.	
Listening	2.2.2 Applies skills and strategies to contribute responsibly in a group setting.	
Writing	3.3.6 Uses complete sentences in writing.	

Performance Assessments: Students will participate in various classroom leadership roles and activities. Students will be encouraged to join and participate in a CTSO: SkillsUSA or the Technology Student Association. Students will also run a club meeting to better understand parliamentary procedures as part of their leadership assessment.

Leadership Alignment: State of Washington 21st Century Leadership & Employability Skills Standards, as developed from *Partnership for 21st Century Skills* organization, within the Career and Technical courses. (See Leadership document filed under Leadership tab)

Standards and Competencies

Content Standard E: The student will identify, understand, and perform the proper use of group dynamics, diversity training, problem solving techniques, and employee / employer relationships.

Competend	ompetencies Total Learning Hours for Unit: 5	
Competency Unit 18.0: Leadership		
18.1	The student will demonstrate the ability to identify, organize, plan, and allocate resources.	
18.2	Time—Select goal-relevant activities, rank them, allocate time, and prepare and follow schedules	
18.3	Anney—Use or prepare budgets, make forecasts, keep records, and make adjustments to meet objectives	
18.4	Materials and Facilities—Acquires, store, allocate, and use materials or space efficiently	
18.5	Participates as a Member of a Team—Contribute to group effort	
	Teach Others New Skills—Help others to apply concepts, theories, recognizing training needs and conveying job information.	
18.7	Work with Diversity—Work well with people from diverse backgrounds	
18.8	Apply leadership skills learned through SkillsUSA / TSA in the classroom setting.	
	Aligned Washington State Standards	
Educationa	1.1.1 Generate ideas and create original works for personal and group expression using a variety of digital tools.	
Technolog	1.2.1 Communicate and collaborate to learn with others.	
•	2.2.2 Use a variety of hardware to support learning	
Language	L 1.8 Determine the meaning of words and phrases in oral presentations and literary and informational text.	
Math	6&7 NS Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.	
	RST 9-10 -3 Follow precisely a complex multistep procedure when carrying out experiments, or performing technical tasks.	
Reading	RST 9-10 -4 Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific	
	scientific or technical context relevant to grades 9-10 text and topics	
Social Stud	Studies 2.1 Understands that people have to make choices between wants and needs and evaluate the outcomes of those choices.	
Speaking a Listening	1.1.1 Applies a variety of listening strategies to accommodate the listening situation.	
	1.1.2 Applies a variety of listening and observation skills/strategies to recall and interpret information.	
	2.2.2 Applies skills and strategies to contribute responsibly in a group setting.	
Writing	3.1.1 Analyzes ideas, selects a manageable topic, and elaborates using specific, relevant details and/or examples.	
Writing	3.3.6 Uses complete sentences in writing.	

Performance Assessments: Students will construct projects applying the standards taught through the competencies taught: safety, applied math, plan reading, machine and tool use, material selection, joinery, assembly systems, and finishing techniques.

Leadership Alignment: State of Washington 21st Century Leadership & Employability Skills Standards, as developed from *Partnership for 21st Century Skills* organization, within the Career and Technical courses.

Be self-directed learners

8.C.1 Go beyond basic mastery of skills and/or curriculum to explore and expand one's own learning and opportunities to gain expertise. Adapt to change

7.A.1 Adapt to varied roles, jobs, responsibilities, schedules and contexts.

Standards and Competencies

Content Standard C, D: (1) Identify, understand and perform acceptable safety practices and policies pertaining to work areas and the proper use of hand tools, portable power tools, stationary equipment, and CNC machinery.

(2)Identify, perform, and understand tasks demonstrating proper applications that; hold, join, and fasten materials. As well as preparation for and application of finish products.

: 60		
Competency Unit 19.0: Application of Acquired Skills		
Aligned Washington State Standards		
-		

	2.2.2 Use a variety of hardware to support learning
Health and Fitness	 2.4.2 Evaluates emergency situations, ways to prevent injuries, and demonstrates skills to respond appropriately and safely. 3.1.3 Evaluates environmental risks associated with certain occupational, residential, and recreational choices.
Language	L 1.8 Determine the meaning of words and phrases in oral presentations and literary and informational text.
Math	 6&7.RP Understand ratio concepts and use ratio reasoning to solve problems 6&7 NS Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers. A-CED Create equations that describe numbers or relationships A-REI Understand solving equations as a process of reasoning and explain the reasoning Solve equations and inequalities in one variable 1. Use units as a way to understand problems and to guide the solution of multi-step problems; choose and interpret units consistently in formulas; choose and interpret the scale and the origin in graphs and data displays. 2. Define appropriate quantities for the purpose of descriptive modeling. 3. Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.
Reading	RST 9-10 -3 Follow precisely a complex multistep procedure when carrying out experiments, or performing technical tasks, attending to special cases or exceptions defined in the text. RST 9-10 -4 Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 9-10 text and topics
Science	9-12 INQC Conclusions must be logical, based on evidence, and consistent with prior established knowledge.9-12 APPD The ability to solve problems is greatly enhanced by use of mathematics and information technologies.
Social Studies	2.1 Understands that people have to make choices between wants and needs and evaluate the outcomes of those choices.
Speaking and Listening	1.1.1 Applies a variety of listening strategies to accommodate the listening situation.1.1.2 Applies a variety of listening and observation skills/strategies to recall and interpret information.2.2.2 Applies skills and strategies to contribute responsibly in a group setting.
Writing	3.1.1 Analyzes ideas, selects a manageable topic, and elaborates using specific, relevant details and/or examples.3.3.6 Uses complete sentences in writing.