

Construction Trades 1 & 2

UNIT NAME	LESSONS	LEARNING TARGETS/ OBJECTIVES	Resources (Suggested Activities)	ASSESSMENT	CROSS CURRICULUM CONNECTIONS
Safety on the Jobsite	Importance of Safety	-Awareness of your surroundings -Knowing location of fire alarms, extinguishers & first aid supplies -Proper PPE -Tool use & Training	Project Book #1 Chapter 1 text Pgs 4-23 Unit Plan Power Point	Project Book #1 Chapter 1 Pgs. 24-25 Multiple Choice, T/F, Fill in Blanks. Ch1 Review	OSHA –10 Certification First Aide/CPR Certification (Good for 2 years, end of SR year.)
	Hazards, Accidents and Injuries	-Define Hazard -Identify Types of Hazards -Understand an accident and injury	Same as above	Same as above	Listening for meaning
	Mistakes that lead to accidents and injuries	-Safety in work area -Proper use of tools -Safe work habits and attitudes -PPE -Good communication	Same as above	Same as above	Listening to understand
	Preventing accidents	-training, planning and prep -recognizing hazards -safe work habits -knowledge and skill	Same as above	Same as above	Listening as part of collaborative talk

		-proper handling of materials -cleaning of work area -PPE			
	Promoting Safety	-Eliminate/minimize all hazards -What to do in case of an accident -first aid stations	Same as above	Same as above	Collaborative talk, Questioning
https://www.osha.gov/training/library/materials	Osha 10 Certification	- What are the requirements to be OSHA Certified	1. https://www.osha.gov/vtools/construction 2. https://www.osha.gov/video/choice-or-chance 3. Instructor Guide 4. Student Guide	https://www.proprofs.com/quiz-school/quizshow.php?title=introduction-to-osh&q=1	Osha 10 Certification
Measuring, marking and Layout tools	Showing respect for tools	-tool definition -importance of using tools with care -importance of too safety -types of tools	Project book #1 Chapter 2 text Pgs 26-53 Unit Plan	Project book #1 Chapter 2 check (text) pgs. 54-55 Mult. Choice, fill in blanks, T/F  Ch2 Review	Construction Math Certification
	Tools used for measuring,	-Linear measurements -understand how measuring tools are marked	Same as above	Same as above	Conceptual understanding,

	marking and layout	-tools most used in the field -retractable tape measure, speed square, compass, protractor, sliding T-bevel, framing square, straight edge, & chalk box.			Computation, Measurement
Basic Hand Tools	Intro to hand tools	-types of hand tools -cutting tools, shaping tools, striking tools, & fastening tools. -developing hand tool skills -hand tool safety	Project book #1 Chapter 3 text pgs. 56-86 Unit Plan Power point	Project book #1 Lead up exercises (text) pgs. 63,64,69,72,73,74, 78,79 &84.	Strategic competence
Power tools for cutting and shaping	Intro to power tools	-power supply -using power tools -proper tool safety -Portable circular saws, power miter saw, saber saw, & router.	Project book #1 Chapter 4 text pgs. 87-121 Unit Plan From Project Book 1 Power Point From Project book 2 Power Point	Project book #1 lead up exercises (text) Pgs. 96,97,98,99,100,101, 102,105,106,107,109 ,110,112,113,116,118,119,120,121.	Strategic competence
Power tools and finishing	Intro to fastening and finishing power tools	-fastening and finishing power tool safety -using fastening and finishing power tools -drill, screw gun, impact driver, nail gun, belt sander, & orbital sander.	Project book #1 Chapter 5 text pgs. 122-144. Unit Plan Power Point	Project book #1. Lead up exercises (text) pgs. 128, 129,130, 132, 133,141, 142.	Strategic Competence
Materials and fasteners used in the projects	Intro to lumber	-common wood species -lumber sizes and defects -defects caused by improper storage -engineered wood products -fasteners and adhesives	Project book #1 Chapter 6 text Pgs. 145-159 Unit Plan	Project book #1 Chapter check (text) Pgs. 160-161 Multiple choice, fill in blanks, true/false.	Strategic Competence
Fundamental carpenter concepts	Tote box build	-fundamental use of various materials, tools, & skills from previous units	Demo stations Plans/instructions	Project evaluation scoring rubric. Project book #1 textbook pg. 191	Logical Reasoning, Measurement

			Project book #1 textbook pgs. 164-175 Powerpoint Diagram	Project Book 1 Skills Matrix Rubric Evaluation	
	Paper towel holder build	Same as above	Project Book 1 Pgs. 174-181 Powerpoint Diagram	Same as above pg. 192 Rubrics Evaluation	Logical Reasoning, Measurement
	Foot stool build	Same as above	Project Book 1 Pgs. 182-190 Powerpoint Diagram	Same as above pg. 193 Rubric Evaluation	Logical Reasoning, Measurement
	Bird house build	Same as above	Project Book 1 Pgs. 194-203 Powerpoint Diagram	Same as above Pg 213 Rubric Evaluation	Logical Reasoning, Measurement
	Saw key holder build	Same as above	Project Book 1 Pgs. 204-206 Powerpoint Template	Same as above Pg.214 Rubric Evaluation	Logical Reasoning, Measurement
	Coat rack build	Same as above	Project Book 1 Pgs. 207-212 Powerpoint Diagram	Same as above Pg 215 Rubric Evaluation	Logical Reasoning, Measurement
Advanced carpentry concepts	Step stool build	-advanced use of various materials, tools, and skills from previous units	Demonstrations/ plans/instructions Text pgs. 217-228 Powerpoint Diagram	Project evaluation scoring rubric Pg 249 Rubric Evaluation	Logical Reasoning, Measurement
	Chest build	Same as above	Project Book 1 Pgs. 228-237 Powerpoint	Same as above Pg 250 Rubric	Logical Reasoning, Measurement

			Diagram	Evaluation	
	Bread box build	Same as above	Project Book 1 Pg.238 Plans Power Point	Same as above Pg 251 Rubric Evaluation	Logical Reasoning, Measurement
Advanced #2 carpentry concepts	Bookcase build	-advanced use of various tools, skills form previous units with the addition of trim	Demonstrations/ Plans/instructions Text pgs. 256-265 Powerpoint Diagram Gauge Blocks  Straight Edge Guide for Routing	Project evaluation scoring rubric Text Pg. 283 Rubric Evaluation	Logical Reasoning, Measurement
	Toolbox build	Same as above	Project Book 1 Pgs. 287-296 Powerpoint Diagram	Same as above Pg. 317 Rubric Evaluation	Logical Reasoning, Measurement
	Storage chest build	Same as above	Project Book 1 Pg 302-316 Powerpoint Diagram	Same as above Pg. 319 Evaluation Rubric	Logical Reasoning, Measurement
	Sawhorse build	Same as above	Project book #2 Text pgs. 69-101 I Beam Powerpoint I Beam Diagram Notched Top Powerpoint Notched Top Diagram Beveled Top Powerpoint	Project book #2 text pgs. 102-104 Project Book 2 Skills Matrix I Beam Evaluation I Beam Rubric Notched Top Evaluation Notched Top Rubric	Logical Reasoning, Measurement

			Beveled Top Diagram	Beveled Top Evaluation Beveled Top Rubric	
	Picnic table build	Same as above	Project book #2 text pgs. 109-180 Curved Picnic Table Powerpoint Curved Picnic Table Diagram Octagonal Picnic Table Powerpoint Octagonal Picnic Table Diagram Folding Picnic Table Powerpoint Folding Picnic Table Diagram	Project book #2 text pgs. 181-183 Curved Table Evaluation Curved Table Rubric Octagonal Table Evaluation Octagonal Table Rubric Folding Table Evaluation Folding Table Rubric	Logical Reasoning, Measurement
	Adirondack chair build	Same as above	Project Book 2 pgs. 209-288 Project Powerpoint Project Diagram	Project Book 2 pg. 236 Evaluation Rubric	Logical Reasoning, Measurement
	Shed with gable roof build	Same as above	Project Book 2 pgs. 209-288 Project Powerpoint Project Diagrams	Project Book pg. 322 Evaluation Rubric	Logical Reasoning, Measurement
	Garden tool shed	Same as above	Project Book 2 Pgs. 262-288 Project Powerpoint Project Diagram	Project Book 2 pg 323. Evaluation Rubric	Logical Reasoning, Measurement

Advanced in- school projects	Application and implementation of advanced skills	-Print interpretation -layout/design -metal/wood framing -cut/install/finish drywall -prime/paint/stain -iron work -minor electrical work -mason/concrete work -overall labor work -carpentry work	Instructor, professionals in the field, various union personnel. Print Interpretation Metal Door Frame Wood framed floor Cutting Drywall Framing and Drywall Installing Drywall Drywall Tools	-laser line and level cert -blue print reading certification -layout and framing evaluation scoring rubric (project book #3) pgs. 165, 210, 211. -drywall finishing evaluation scoring rubric (project book #3) pgs. 310, 311. Drywall Rubric	Communicating with symbols and others
First Aid CPR Certification	Application of first Aid and CPR	-obtain first aid and CPR certification	Red Cross Training Program	Certification	Strategic Competence