

Anoka-Hennepin Secondary Curriculum Unit Plan

Department:	Career Technical Education	Course:	Construction Careers: Building Trades	Unit 2 Title:	Planning, Construction and Installation	Grade Level(s):	11-12
Assessed Trimester:		Pacing:	10 Days	Date Created:		Last Revision Date:	

Course Understandings: <i>Students will understand that:</i> <ul style="list-style-type: none">The field of construction trades and its area of specialization.Organizational skill, problem solving, critical thinking, and assessment skills are the essential tools used in construction trades.Math, in its various forms, are foundational to the construction trades.Attention to detail, resulting in a safe work environment and a high quality product, is the driving force within construction trades.

DESIRED RESULTS (Stage 1) - WHAT WE WANT STUDENT TO KNOW AND BE ABLE TO DO?

Established Goals	
Minnesota State/Local/Technology Standard(s) addressed: <ul style="list-style-type: none">Professional Attributes - A2 Displays a positive attitude, A3 Displays appropriate behavior, A4 Works effectively as a team member, A5 Applies listening skills, A6 Applies speaking skillsFundamental Carpentry Skills - E9 Uses squares, measuring tapes or rules to measure materials or distances, E11 Performs mathematical calculationsHand Tools – F1 Identifies and correctly uses hammers, F2 Identifies and correctly uses handsawsPower Tools – G1 Identifies and correctly uses power drills, G2 Identifies and correctly uses power saws, G3 Identifies and correctly uses sanders, G7 Identifies and correctly uses pneumatic nailerReading Plans – H4 Reads and interprets elevation view drawingsEstimating Materials – J1 Estimates rough framing materials, J3 Estimates roofing materials, J11 Estimates sidingFoundations and Forms – K9 Installs anchor bolts in concrete block, K13 Screeds concreteRough Framing – L3 Installs sill plate, L6 Lays out and constructs floor assembly, L7 Installs bridging, L8 Installs floor joists, L9 Installs subflooring, L11 Constructs and erects wall sections, L12 Lays out wall and partition location, L13 Cuts studs, trimmers, cripples, and headers to dimensions, L14 Assembles corners, partition Ts and headers, L16 Frames door opening, L17 Frames window opening, L19 Constructs a frame roof including hips, valleys, commons and jack rafters, L21 Lays out rafter locations on a top plate, L22 Cuts and installs rafters, L23 Applies roof sheathingInstalling Exterior Finishes – N2 Installs box cornices, N3 Installs rake cornices, N5 Installs wood or vinyl fascia, N8 Installs outside corner – wood, shingle or siding, N9 Installs selected types of wood siding, N12 Cases exterior opening, N13 Installs pre-hung window, N15 Installs a pre-hung exterior doorAssembling and Constructing Stairs – P2. Lays out and cuts stringers, P3 Determines the number and sizes of risers and treads requires for a stairway, P5 Constructs open riser stairs	
Transfer	
Students will be able to independently use their learning to: (product, high order reasoning) <ul style="list-style-type: none">	
Meaning	
Unit Understanding(s): Students will understand that: <ul style="list-style-type: none">The application of basic construction concepts is foundational to all types of construction projectsMastery of basic construction concepts is required to be successful in construction tradesMastery of basic construction concepts is required to be able to work in conjunction with other carpentersBasic construction concepts apply to both new construction and remodeling projects	Essential Question(s): Students will keep considering: <ul style="list-style-type: none">How do you apply basic construction concepts to window or door rough openings?What is the difference between a window and door rough opening?How do you apply sheathing?How does power tool safety change with the job requirements?What is a reciprocating saw?

Acquisition	
Knowledge - Students will: <ul style="list-style-type: none">Construction terminology used in window rough openingConstruction terminology used in door rough openingSafety and usage procedures for the reciprocating sawProcedures for different types of sheathing Reasoning - Students will: <ul style="list-style-type: none">	Skills - Students will: <ul style="list-style-type: none">Apply basic construction concepts to rough in a window openingApply basic construction concepts to rough in a door openingSafely use a reciprocating sawDescribe the function and installation procedures for different types of sheathingEstimate the cost for a window or door roughing projectEstimate the cost for a sheathing project

Common Misunderstandings <ul style="list-style-type: none">Inability to do mathIlliteracy in either or both reading and writingWhere to start roughing in a window or door openingDeciding on the correct tools for the job	Essential new vocabulary <ul style="list-style-type: none">
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