	Construction Trades 1					
Month Example	Content Sub-Category or	ategory Standards High School Content Expectations (HSCEs) Essential Skills	Examples of Formative Assessments	Vocabulary		
Sept/Jan	Strand	Code & Language	Code & Language		RANGE OF THE PROPERTY OF THE P	
1st Quarter		Industry-Wide Health & Safety Standards	46.000 -1-A-J / MI Technical Standards	Excavations and associated safe procedures		(GFCI)
			Industry-Wide Health & Safety Standards-	Introduction to safe practices		Angle Of Repose
			Complete OSHA 10 hour instruction from state safety inspector			Class A Fires Class B Fires Class C Fires
				Fall protection		
				Materials, handling, storage, use and disposal Stairways and ladder safety		
				Tools/hand and power safety		Ground Fault
				Electrical safety/construction		Circuit Interrupter
				PPE - Personal Protection		
				Equipment Scaffold use and safety		Pressure
				Í		Treated Lumber
						Safety Factor

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Month Example	Content Sub-Category or National Common Core Standards High School Content Expectations (HSCEs) Essential Skills	Examples of Formative Assessments	Vocabulary				
Sept/Jan	Strand	Code & Language	Code & Language		A A		
1st Quarter	Material Safety Data Sheets		46.000 - 2 / MI Technical Standards Examine Material Safety Data Sheets (MSDS)	Examine Material Safety Data Sheets (MSDS) and follow the procedures as necessary	Tests Job Performance Work Ethic Attitude Attendance	MSDS	
1st Quarter	Personal safety		46.000 - 3-A-D / MI Technical Standards Describe personal safety at any type of construction site	Select, inspect, and use personal protective equipment such as respiratory protection and fall protection equipment	Job Performance Work Ethic Attitude	Dust masks Ear protection Foot protection Hard Hat Safety Glasses	
				Work to create a hazard-free, accident-free environment Know effects of and how to deal with temperature extremes and weather conditions			
				Work safely in confined spaces or at heights			
1st Quarter	Mitigate safety hazards		46.000 - 4 -A-G / MI Technical Standards Recognize and mitigate safety hazards including hazardous materials, environmental hazards and accident conditions at any type of construction site	Follow rules and regulations to comply with personal and jobsite safety standards	Tests Job Performance Work	Chemical safety electrical safety fire safety shop safety worksite safety	

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Month Example	Content Sub-Category or	National Common Core Standards	Michigan Standards High School Content Expectations (HSCEs)	Essential Skills	Examples of Formative Assessments	Vocabulary
Sept/Jan	Strand	Code & Language	Code & Language		科	
				Identify workplace/jobsite environmental hazards to promote workplace/jobsite safety Understand shop and worksite safety, fire safety, electrical safety, and chemical safety Follow ladder and scaffold safety procedures Demonstrate knowledge of hazardous properties of materials such as radiation, toxicity, flammability, reactivity, corrosives, and limits of fire resistance exposure Complete accident reports in accordance with required standards; file reports with appropriate personnel Use Material Safety Data Sheets (MSDS) information to manage, use, and dispose of hazardous materials		

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Month Example	Content Sub-Category or	Category Standards High School Content Expectations (HSCEs) Essential Skills	Examples of Formative Assessments	Vocabulary			
Sept/Jan	Strand	Code & Language	Code & Language		FA.		
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1st Quarter	Lead Safe Work practices		46.000 - 5 -A-H / MI Technical Standards Describe procedures for the Renovation, Repair, and PaintingLead Safe Work practices	Determination that lead-based paint (LBP) is present using a lead based paint test kit Training for protecting working	Homework Quizes Tests Job Performance Work Ethic Attitude Attendance	Lead based paint Notification of Occupants Work site procedures	
				envirnment Pre-Renovation procedures			
				Treating LBP hazards			
				Prohibited Work Practices			
				Threshold minimum amounts of interior paint disturbance which trigger lead activities.			
				Confirmatory Testing and documentation How to notify occupants.			
				Use of construction equipment and tools.			
2nd Quarter	Construction Equipment and Tools		46.000 A-1-A-H / MI Technical Standards Use and maintain common hand tools in the construction industry	Identifies and selects correct tool for task	Homework Quizes Tests Job Performance Work Ethic Attitude Attendance	Bar Clamps C-Clamp Chalk Line Claw Hammer Coping Saw Framing Square	

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Month Example Sept/Jan	Content Sub-Category or Strand	National Common Core Standards Code & Language	Michigan Standards High School Content Expectations (HSCEs) Code & Language	Essential Skills	Examples of Formative Assessments	Vocabulary	
				Handles tools in a safe manner Wears Personal Protective Equipment (PPE) during tool operation Use a claw hammer to drive and pull out nails. Use handsaws to cut boards. Use screwdrivers to drive in screws. Drill holes with hand-powered drills. Identifies and use various types of tools such as: wrenches, pipe wrenches and plumbing tools, chisels, staple guns, wood planes, woodworking files, spirit levels, socket wrench sets, hand or block sanders, carpenter's squares.		Hacksaw Level Nail Set Pencil Plumb Bob Pry Bar Rasps Speed Square Utility Knife Wood Chisel	
2nd Quarter	Common portable power tools		46.000 A2 A-E /MI Technical Standards Use and maintain common portable power tools in the construction industry	Identifies and selects correct portable power tools for task Handles tools in a safe manner, checking guards and safety cords	Homework Quizes Tests Job Performance Work Ethic Attitude Attendance		

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Month Example	Content Sub-Category or	National Common Core Standards	Michigan Standards High School Content Expectations (HSCEs)	Essential Skills	Examples of Formative Assessments	Vocabulary
Sept/Jan	Strand	Code & Language	Code & Language		A A	
				Wears Personal Protective Equipment (PPE) during tool operation Identify and use power tools such as :sanders, drills, screwdrivers, hand-held saws, radial-arm saws, table saws, drill presses, band saws, planes, electronic routers. Identifies and selects correct portable power tool for task Passes Safety Test for all power tools as identified Handles tools in a safe manner, checking guards and safety cords Wears Personal Protective Equipment (PPE) during tool operation Identify and use power tools such as :sanders, drills, screwdrivers, hand-held saws, radial-arm saws, table saws, drill presses, band saws, planes, electronic routers.		

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Month Example	Content Sub-Category or	ub-Category Standards	Michigan Standards High School Content Expectations (HSCEs)	Essential Skills	Examples of Formative Assessments	Vocabulary	
Sept/Jan	Strand	Code & Language	Code & Language				
3rd Quarter	Wood/Fasteners		46.000 - 5 -A-H / MI Technical Standards Describe procedures for the Renovation, Repair, and use of wood fasteners	Identifies common defects in lumber Calculate lumber sizes according to established industry standards Identify nail types and size List precautions to observe while working with treated lumber		Annular rings, Blue Stain, Board foot, Cambium, Casein glue, Composite board, Composite panels, Conifers, Contact cement, Core, Cross-bands, Decay, Deciduous, Edge-grained, Engineered Lumber Products, Equilibrium Moisture Content, Faces, Factory and Shop Lumber, FAS, Fiber Saturation Point, Flat-grained, Glue Laminated Beams, Glulams,	

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Month Example Sept/Jan	Content Sub-Category or Strand	National Common Core Standards Code & Language	Michigan Standards High School Content Expectations (HSCEs) Code & Language	Essential Skills	Examples of Formative Assessments	Vocabulary	
						Hardboard, Heartwood, Holes, Honeycombing, Kiln-dried, Knots,Laminated- strand lumber (LSL), Laminated- veneer lumber (LVL), Lignin, Lumber, Lumber core, Mastics, Moisture content (M.C.), No.1 common, Open- grained woods, Open time, Oriented strand board (OSB),	

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Sept/Jan	Strand	Code & Language	Code & Language		A A	
						Parallel lamination, Parallel-strand lumber (PSL), Particleboard, Phloem, Photosynthesis, Pitch pockets, Plain-sawed, Polyvinyl resin emulsion adhesive, Polyurethane adhesives, Premium grade, Quarter-sawed, Sapwood, Selects, Shakes, Span ratings, Splits and checks, Steel framing members,Tension bridging, Thermoplastic, Thermo set adhesives, Tracheids, Urea- formaldehyde resin lue, Veneer core, Wane, Warp, Wood I-beams, Xylem

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Sept/Jan	Strand	Code & Language	Code & Language			
3rd Quarter	Plans and Specifications		Plans, Specifications, and Codes – 3.1 Set of Plans – 3.1.1 Drawings in a Set of Plans – 3.1.2 Stock Plans – 3.1.3 Scale – 3.1.4 Floor and Foundation Plans – 3.1.5 Elevations – 3.1.6 Framing Plans – 3.1.7 Section and Detail Drawings – 3.1.8 Dimensions – 3.1.9 Lists of Materials – 3.1.10 Symbols – 3.2 How to Scale a Drawing – 3.3 Changing Plans – 3.4 Specifications – 3.5 Modular Construction – 3.6 Metric Measurement – 3.7 Building Codes – 3.7.1 Model Codes – 3.7.2 Standards – 3.7.3 Building Permits and Inspections	Use current house blueprints to link knowledge of academics with real examples.	Attendance	Architectural Drawings, Bill of Materials, Blueprints, Building code, Building Permit, CADD- CAM, Detail Drawing, Dimension Lines, Drawn to Scale, Elevations, Floor plans, Footprint, Foundation plans, Framing plans, Lumber list, Mill list, Model Codes, Modular Construction, Pictorial Sketch Plot Plan, Prints, Scale,

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						Schedule, Section drawing, Section view, Set of Plans, Setback, Specifications, Stock plan, Symbols, Unicam	

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Sept/Jan	Strand	Code & Language	Code & Language		作		
4th Quarter	Footings & Foundations		Chapter 7 Footings & Foundations 7.1 Clearing the site – 7.2Laying Out Building Lines - 7.2.1 Batter Boards – 7.3 Excavation – 7.4 Foundation Systems – 7.4.1 Frost protected Shallow Foundations - 7.4.2 Footings – 7.4.3 Slabs – 7.4.4 Forms for Footings – 7.5 Erecting Wall Forms 7.5.1 Re-establishing the Building Line - 7.5.2 Form Hardware – 7.5.3 Panel Forms –	·	Tests Job Performance Work Ethic Attitude Attendance	Admixtures, Aggregate, Anchor Bolts, Anchor Straps, Backfilling, Batter Boards, Bucks, Cement Chairs, Closure, Block, Concrete blocks, Control Point, Corbel Blocks, Course Pole, Crawl space Foundation, Curing, Drywood Termites,	

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Month Example Sept/Jan	Content Sub-Category or Strand	National Common Core Standards Code & Language	Michigan Standards High School Content Expectations (HSCEs) Code & Language	Essential Skills	Examples of Formative Assessments	Vocabulary
			7.5.4 Wall Openings – 7.5.5 Forming a Wall Pocket – 7.5.6 Pilasters – 7.5.7 Column Forms – 7.6 Concrete – 7.6.1 Effect of Improper Amount of Water in Mix - 7.6.2 Proper Curing			Fixed Anchor, Flat ICF Wall, Floating, Form Ties, Grade Beam Foundation, Ground Supported Slab, Head Joints, Foundations, Plain Footings, Post and Beam ICF Wall, Rebar,

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			7.6.3- Curing Methods -7.6.4 Slump Testing – 7.6.5 Giving Concrete Tensile Strength – 7.6.6 Cement – Effect of Improper Amount of Water in Ordering Concrete – 7.8 Mix - 7.6.2 Proper Curing – 7.6.3 Curing Methods 7.6.7 Aggregates – 7.7 7.8 Placing Concrete – 7.8.1 Anchors – 7.8.2 Removing – 7.9 Concrete Block Foundations - 7.9.1 Sizes and Shapes – 7.9.2 Mortar – 7.9.3 Laying Concrete Block			Reinforced Footings, Screeding, Screen grid ICF Wall, Slab Foundations, Slab on Foundations, Slab on Grade, Spread Foundation, Stepped Footing, Structurally Supported Slab, Subterranean termites, Troweling, Waffle grid ICF Wall, Walers, Wall Pocket

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Month Example Sept/Jan	Content Sub-Category or Strand	National Common Core Standards Code & Language	Michigan Standards High School Content Expectations (HSCEs) Code & Language	Essential Skills	Examples of Formative Assessments	Vocabulary
			Forms Estimating Materials -7.9.4 Anchoring Intersecting Walls – 7.9.5 Lintels – 7.10 Insulating Block Walls – 7.10.1 Waterproofing – 7.11 Backfilling – 7.12 ICF Foundation and Wall Systems – 7.12.1 Code Restrictions for ICFs -7.13 Slab on Grade Construction – 7.14 Basement Floors – 7.14.1 Super insulated Basement Floors – 7.15 Entrance Platforms and Stairs – 7.16 Sidewalks, Steps and Drives – 7.16.1 Finishing Walks and Drives – 7.16.2 Forming Control Joints – 7.17 Wood Foundations – 7.18 Cold Weather Construction – 7.18.1 Protecting Concrete – 7.18.2 Mortar Temperatures – 7.18 Insect Protection – 7.19.1 Termites – 7.19.2 Termite Control – 7.20			Hydration Ledger Boards, Lintel, Masons Line, Monolithic Pour, Mortar Nailing Strips, Permanent Wood Foundation, Pilaster, Piling and Girder, Foundations, Plain Footings, Post and Beam ICF Wall,

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Sept/Jan	Strand	Code & Language	Code & Language		F.	
4th Quarter	Floor Framing		8.1 Types of Framing, 8.2 Girders and Beams, 8.3 Sill Construction, 8.4 Joists, 8.5 Special Framing Problems, 8.6 Open Web Floor Trusses, 8.7 Solid Web Trusses, 8.8 Subfloors, 8.9 Estimating Material	On site procedures followed as instructed in class – Correction as needed Demonstrate proper procedure of set-up and clean-up on the job site. Students will now write a list of the procedures covered above. Students will define all Technical Vocabulary as listed in Modern Carpentry textbook PG 223 Modern Carpentry Textbook - Test Your Knowledge PG 251 Students will write a paper and list their knowledge of the following commonly used framing methods. Modern Carpentry Textbook is acceptable resource to enhance awareness.		Types of Framing Girders and Beams, Sill Construction, Joists, Special Framing Problems, Open Web Floor Trusses, Solid Web Trusses, Subfloors, Estimating Material