







## Construction Trades 2

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
						
<b>1st Quarter</b>	Industry-Wide Health & Safety Standards		46.000 -1-A-J / MI Technical Standards  Industry-Wide Health & Safety Standards-  Complete OSHA 10 hour instruction	Introduction to safe practices  Crane use and safe care  Fall protection Materials, handling, storage, use and disposal Stairways and ladder safety Tools/hand and power safety Electrical safety/construction safety  Excavations and associated safe procedures PPE - Personal Protection Equipment Scaffold use and safety	Homework Quizes Tests Job Performance Work Ethic Attitude Attendance	Angle Of Repose  Class A Fires  Class B Fires Class C Fires  Ground Fault Circuit Interrupter (GFCI)  Pressure Treated Lumber  Safety Factor





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<b>1st Quarter</b>	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	Homework Quizzes Tests Job Performance Work Ethic Attitude Attendance	MSDS
<b>1st Quarter</b>	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.  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.	Homework Quizzes Tests Job Performance Work Ethic Attitude Attendance	Dust masks Ear protection Foot protection Hard Hat Safety Glasses





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<b>1st Quarter</b>	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	<p>Follow rules and regulations to comply with personal and jobsite safety standards. Identify workplace/jobsite environmental hazards to promote workplace/jobsite safety</p> <p>Understand shop and worksite safety, fire safety, electrical safety, and chemical safety.</p> <p>Follow ladder and scaffold safety procedures.</p> <p>Demonstrate knowledge of hazardous properties of materials such as radiation, toxicity, flammability, reactivity, corrosives, and limits of fire resistance exposure.</p> <p>Complete accident reports in accordance with required standards; file reports with appropriate personnel.</p> <p>Use Material Safety Data Sheets (MSDS) information to manage, use, and dispose of hazardous materials.</p>	<p>Homework Quizzes Tests Job Performance Work Ethic Attitude Attendance</p>	<p>Chemical Safety electrical safety fire safety shop safety worksite safety</p>





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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 Painting--Lead Safe Work practices	<p>Determination that lead-based paint (LBP) is present using a lead based paint test kit. Training for protecting working environment. Pre-Renovation procedures</p> <p>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.</p>	<p>Homework Quizzes Tests Job Performance Work Ethic Attitude Attendance</p>	<p>Lead based paint Notification of Occupants Work site procedures</p>
1st Quarter	Construction Equipment and Tools		46.000 A-1-A-H / MI Technical Standards Use and maintain common hand tools in the construction industry	<p>Identifies and selects correct tool for task. 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.</p>	<p>Homework Quizzes Tests Job Performance Work Ethic Attitude Attendance</p>	<p>Bar Clamps C-Clamp Chalk Line Claw Hammer Coping Saw Framing Square Hacksaw Level Nail Set Pencil Plumb Bob Pry Bar Rasps Speed Square Utility Knife Wood Chisel</p>





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				Identify 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.		
<b>2nd Quarter</b>	Common portable power tools		46.000 A2 A-E /MI Technical Standards Use and maintain common portable power tools in the construction industry	<p>Identifies and selects correct portable power tools 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</p> <p>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.</p> <p>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</p> <p>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.</p>	<p>Homework Quizzes Tests Job Performance Work Ethic Attitude Attendance</p>	





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<b>2nd Quarter</b>	Wall & Ceiling Framing		9.1 Parts of the Wall Frame- 9.2 Plate Layout – 9.3 Wall Sections – 9.4 Erecting Wall Sections – 9.5 Partitions – 9.6 Tri level and Split Level Framing – 9.7 Special Framing – 9.8 Wall Sheathing – 9.9 Multistory Floor Framing 9.10 Strongbacks – 9.11 Housewrap and Building Paper – 9.12 Estimating Materials	On site procedures followed as instructed in class – Correction as needed On site procedures followed as instructed in class – Correction as needed Modern Carpentry Textbook - Test Your Knowledge PG 281	Homework Quizzes Tests Job Performance Work Ethic Attitude Attendance	Parts of the Wall Frame Plate Layout Wall Sections Erecting Wall Sections Partitions Tri level and Split Level Framing Special Framing Wall Sheathing Multistory Floor Framing Strongbacks Housewrap and Building Paper Estimating Materials





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<b>3rd Quarter</b>	Roof Framing		10.1 Roof Types – 10.2 Roof Supports – 10.3 Parts of a Roof Frame – 10.4 Layout Terms and Principles – 10.5 Unit Measurements – 10.6 Framing Plans – 10.7 Rafter sizes – 10.8 Laying out common rafters – 10.9 Erecting a Gable Roof – 10.10 Gable End Frame – 10.11 Hip and Valley Rafters – 10.12 Erecting Jack Rafters – 10.13 Special Problems -10.14 Roof Openings – 10.15 Roof Anchorage – 10.16 Collar ties – 10.17 Dormers – 10.18 Framing Flat Roofs – 10.19 Gambrel Roof – 10.2 Mansard Roof – 10.21 Special Framing – 10.22 Roof Truss Construction – 10.23 Bracing of Truss Rafters – 10.24 Roof Sheathing – 10.25 Estimating Materials – 10.26 Model and Small Scale Construction	Students will define all Technical Vocabulary as listed in Modern Carpentry textbook PG 283	Homework Quizzes Tests Job Performance Work Ethic Attitude Attendance	Roof Types Roof Supports Parts of a Roof Frame Layout Terms and Principles Unit Measurements Framing Plans Rafter sizes Laying out common rafters Erecting a Gable Roof Gable End Frame Hip and Valley Rafters Erecting Jack Rafters Special Problems Roof Openings Roof Anchorage Collar ties Dormers Framing Flat Roofs





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3rd Quarter	Roofing		12.1 Types of Materials – 12.2 Roofing Terminology – 12.3 Preparing the Roof Deck – 12.4 Asphalt Roofing Products – 12.5 Flashing – 12.6 Strip Shingles – 12.7 Hips and Ridges -12.8 Wind Protection – 12.9 Individual Asphalt Shingles – 12.10 Low Slope Roofs – 12.11 Roll Roofing – 12.12 Reroofing – 12.13 Built up Roofing – 12.14 Ridge Vents for Asphalt Roofing – 12.15 wood Shingles – 12.16 Wood Shakes – 12.17 Tile Roofing – 12.18 Metal Roofing – 12.19 Gutters – 12.2 Estimating Material	Modern Carpentry Textbook - Test Your Knowledge PG 393	Homework Quizzes Tests Job Performance Work Ethic Attitude Attendance	Types of Materials Roofing Terminology Preparing the Roof Deck Asphalt Roofing Products Flashing Strip Shingles Hips and Ridges Wind Protection Individual Asphalt Shingles Low Slope Roofs Roll Roofing Reroofing Built up Roofing Ridge Vents for Asphalt Roofing wood Shingles Wood Shakes Tile Roofing Metal Roofing
3rd Quarter	Interior Finish		Drywall construction Measuring and cutting Concealing joints and fasteners Mixing compound Wallboard on masonry walls Installing panels	Students will write a paper and list their knowledge of the following commonly used interior doors & trim.	Homework Quizzes Tests Job Performance Work Ethic Attitude Attendance	Backing board Banjo Brown Coat Cement Board Double layer Finish coat Gypsum wallboard Plaster wood lath





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<b>3rd Quarter</b>	Stair Framing and Finish		Types of stairs Stair parts Stairwell framing Stair design Stair calculations Stairwell length Stringer layout Treads and risers Types of stringers Winder stairs open stairs	Demonstrate proper procedure of set-up and clean-up on the job site.	Homework Quizes Tests Job Performance Work Ethic Attitude Attendance	Balusters Carriages Handrail Newel Nosing Platform Run of stairs Total rise Total run
<b>3rd Quarter</b>	Cabinets & Countertops		Drawings for cabinetwork Standard sizes Types of construction	Students will write a paper and list their knowledge of the following commonly used interior doors & trim.	Homework Quizes Tests Job Performance Work Ethic Attitude Attendance	Backing sheet Cabinet work Drawer guides Flushdoor Kicker Lipped door Master layout Plastic laminate
<b>4th Quarter</b>				Modern Carpentry Textbook is acceptable resource to enhance awareness		