Pacing Guide 18 Week Course Daniel Boone High School : Career and Technical Education

Course: MEP Systems

WEEK	STATE STANDARDS	MAIN TOPICS
1-3	Standard 1-3	 Identify safety hazards on a Jobsite and demonstrate practices for safe working Maintain safety records and demonstrate adherence to industry-standard practices Follow procedures to work safely around materials. OSHA 10 certification.
4-5	Standard 4	 For each of the systems covered in this course, identify and select the proper tools and accessories. Use the tools to accomplish the desired tasks
6	Standard 5-7	 Opportunities within the HVAC, electrical and plumbing industries. Explain what an apprenticeship is, referencing data from the U.S. department of labor and other sources. On the job training paired with related training for individuals seeking construction careers. Research

		apprenticeships
8	Standard 8-9	 Roles and responsibilities among construction trades. How electricians, plumbers, and HVAC technicians coordinate work with other construction personnel to complete the project Explain inspection procedures used to enforce building codes.
9	Standard 10	 Apply mathematics concepts to solve HVAC, electrical, plumbing problems Operating with the whole numbers, fractions, and decimals. Pythagorean theorem
10-12	Standard 11-16	OSHA standards and other regulations specific to job site electrical safety. And OSHA standards, apply lockout/tagout procedures. Examine basic electrical circuits and components. Electrical circuits (series,parallel, and series parallel circuits). Define voltage, resistance, current. Ohm's law Apply Ohm's law and Kirchhoff's laws. Knowledge of basic electrical circuits. Composition and properties of conductors.

		Procedures necessary to safely replace or install electrical devices.
13	Standard 17-19	 Safety considerations specific to plumbers. Movement of potable water and waste. Plumbing codes
14	Standard 20-22	 Pipe fitting Material properties like plastic piping Safely measure,cut,ream,and join plastic piping and fittings.
15-16	Standard 23-26	 Safety considerations specific to HVAC technicians Describe the basic components included in an HVAC system. Fundamental concepts of heating and combustion. Types of heat transfer
17	Standard 27	 Inspect and interpret a full set of construction drawings. Floor plan, elevation, and detail drawing.
18	Standard 28-29	 Clear communication among internal and external parties on a job site. Log daily activities complete during a project