



North Polk Community Schools Pacing & Course Description Guide



Grade Level: 9-12

Content: Indu Tech / Home Repair

Year: 2022-23

Course Description/Rationale

In this course students will explore a broad base knowledge of home repair and maintenance. Students will have the opportunity to perform many of the skills necessary for residential maintenance. Students will be exposed to skills such as dry walling and repair, painting interior and exterior, basic electrical repair, basic plumbing repair, floor care, and furniture repair/refinishing. (1 HS credit)

Name of Unit	Time Frame	Essential Learning Target	Standard(s)
Basic Intro	3-4 weeks	Students understand and apply measurement systems in the planning and layout process used in the residential construction industry.	1 Identify design solutions for residential construction problems.
		Students understand the safe and appropriate use of hand tools common to the residential and commercial construction industry.	1.2 Calculate required materials for residential construction applications.
			1.4 Apply conventional construction measurement processes accurately (geometric and trigonometric functions).

			1.5 Know the use of conventional construction formulas to determine production requirements.
			2.1 Use the common hand tools of the trade, such as hammers, torches, pliers, wire cutters, pipe cutters, saws, chisels, (wood and concrete), and wrenches Safely and properly. 2.2 Maintain and care for hand tools used in residential and commercial construction.
Electrical	3-5 weeks	<p>Students understand the value and necessity of practicing occupational safety in the construction industry facility and job site.</p> <p>Students understand the variety of building phases, systems, and techniques used in residential and commercial construction.</p>	<p>5.1 Understand the safe use of electrical connection methods and electrical wiring procedures.</p> <p>5.2 Know the safety</p>

			procedures and practices in various work environment settings pertaining to residential and commercial construction.
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6.2 Understand the processes and materials appropriate to the architectural design and residential construction.

6.4 Complete the phases of residential electrical construction.

7.3 Understand the environmental regulations that influence residential and commercial design.