

FOUR RIVERS

CAREER CENTER

Curriculum at a Glance

Program: **Building Construction Technology I**

Unit	Topic	Approx. Timeline
1 Blueprint Reading and Estimations	• 3-D Sketching • Working Drawing Concepts • Material Take-off	Quarter 1 *Assessed throughout course
2 OSHA	• Start Safe/Stay Safe • Material Handling • Hand and Power Tools • Excavations • Health Hazards in Construction • Personal Protective Equipment • Fall Hazards • Struck-By Hazards • Caught in or Between • Electrocuting Hazards • Crane Operations • Hazardous Communication • Scaffolds • Welding and Cutting	Quarter 1
3 Individual Drawings in Blue Print Sets	• Plot Plans • Floor Plans • Elevations • Section Drawings • Detail Drawings	Quarter 1 & Quarter 2
4 Trade Information	• Electrical • Plumbing • HVAC • Sheet Metal Work	Quarter 2
5 Survey and Layout	• Carpentry • Drawing Floor Plans • Concrete Form Systems	Quarter 2

	● Builder's Level/Transit and Automatic Level ● Differential Leveling ● Digital Transits ● Measuring Angles	
6 Professionalism and Skill Development	● Proper Dress ● Safe Work Habits ● Care of tools, equipment and materials ● Housekeeping ● Professional Conduct	Quarter 3
7 Plumbing	● Plumbing tools and safety ● Heating and Cooling Water ● Print Reading and Designing plumbing systems ● Plumbing fixtures and water supply systems ● Building and Plumbing Codes ● Drain, waste, and ventilation system ● Maintaining and repairing systems ● Leveling instruments, rigging and hoisting ● Soldering plumbing fittings ● Pipe and fitting installation ● Plumbing materials and fittings	Quarter 3 & Quarter 4
8 Electrical	● Residential Wiring ● Electrical Tools and Safety ● Electrical Connections ● Electrical Prints and Language ● Working with Electrical Wire ● Creating Electrical Systems from Plans ● Working with Conduit ● Service Entrances ● Remodeling	Quarter 4