Lane County ESD Construction Pilot Assessment 2011

This assessment contains 80 items, but only 80 are used at one time.

Construction

Number of Correlations	Standard Type	Standard
0	Program	1) CONSTRUCTION
0	Duty	1) A - DEMONSTRATE BASIC SAFETY
0	Standard	1) 1. Identify the responsibilities and personal characteristics of a professional craftsperson.
0	Standard	2) 2. Explain the role that safety plays in the construction crafts.
1	Standard	3) 3. Work safely in a woodworking shop
1	Standard	4) 4. Describe what job-site safety means.
1	Standard	5) 5. Maintain safe work attire and appearance
0	Standard	6) 6. Explain the appropriate safety precautions around common job-site hazards.
1	Standard	7) 7. Demonstrate the use and care of appropriate personal protective equipment.
1	Standard	8) 8. Follow safe procedures for lifting heavy objects.
3	Standard	9) 10. Describe fire prevention and firefighting techniques.
1	Standard	10) 12. Adhere to lockout /tagout rules and procedures
2	Standard	11) 13. Use equipment safety features correctly
0	Duty	2) B - DEMONSTRATE BASIC MATH
1	Standard	1) 1. Add, subtract, multiply, and divide whole numbers, with and without a calculator.
1	Standard	2) 2. Measure accurately using standard ruler and a metric ruler.
2	Standard	3) 3. Add, subtract, multiply, and divide fractions.
1	Standard	4) 4. Add, subtract, multiply, and divide decimals, with and without a calculator.
1	Standard	5) 5. Convert decimals to percents and percents to decimals.
1	Standard	6) 6. Convert fractions to decimals and decimals to fractions.
4	Standard	7) 8. Calculate linear feet, square feet, and board feet
0	Duty	3) C - INTERPRET PLANS AND PRINTS
1	Standard	1) 1. Recognize and identify basic blueprint terms, components, and symbols.
0	Standard	2) 3. Interpret and use drawing dimensions.
1	Standard	3) 5. Read and interpret a floor plan
2	Standard	4) 7. Create an interpret a material list

0	Duty	4) D - PRACTICE SAFE AND EFFECTIVE USE OF HAND AND POWER TOOLS
2	Standard	1) 1. Recognize and identify some of the basic hand tools used in the construction trade.
3	Standard	2) 2. Use steel rules/tapes, marking gauges and T-bevels correctly
2	Standard	3) 4. Identify commonly used power tools of the construction trade.
4	Standard	4) 5. Use power tools safely.
0	Standard	5) 6. Explain how to maintain power tools properly.
0	Standard	6) 7. Fasten materials using a pneumatic stapler or nailer
1	Standard	7) 8. Utilize a circular saw to make straight, beveled and compound angle cuts
2	Standard	8) 9. Drill holes with a portable power drill
2	Standard	9) 10. Utilize a power drill to bore holes to a specified depth
2	Standard	10) 12. Utilize a table saw to make rip, cross, miter, bevel and groove cuts
1	Standard	11) 13. Utilize a miter saw to make cross, miter and compound angle cuts
1	Standard	12) 15. Demonstrate proper usage of woodworking hand tools.
0	Duty	5) E - DEMONSTRATE PRINCIPLES OF JOINERY
2	Standard	1) 1. Explain the purpose and appropriate applications of common joints
0	Standard	2) 2. Layout and make butt joints using dowels, screws, biscuits, and/or pocket screws
0	Duty	6) F - ASSEMBLE WOOD PRODUCTS USING FASTENERS, ADHESIVES AND HARDWARE
2	Standard	1) 1. Explain the purpose and appropriate applications of common fasteners
2	Standard	2) 2. Explain the purpose and appropriate applications of common woodworking adhesives
0	Standard	3) 3. Identify metal fasteners (for example, nails, screws, staples, and other mechanical fasteners).
0	Duty	7) I- DEMONSTRATE KNOWLEDGE AND SKILLS REQUIRED TO CONSTRUCT FOOTING AND FOUNDATION WALLS
2	Standard	1) 1. Square. level, and plumb appropriate areas.
0	Duty	8) J - DEMONSTRATE BUSINESS PRACTICES
2	Standard	1) 1 Estimate supplies, materials and labor costs
2	Standard	2) 2 Develop a materials order from a cut list and plan
1	Standard	3) 3 Explain product quality standards

0	Duty	9) K - DEMONSTRATE BASIC COMMUNICATION SKILLS
0	Standard	1) 1. Explain techniques for communicating effectively with coworkers and supervisors.
1	Standard	2) 2. Demonstrate verbal and written communication skills necessary in the workplace.
0	Standard	3) 3. Demonstrate telephone and e-communication skills necessary in the workplace.
0	Duty	10) L - DEMONSTRATE BASIC EMPLOYABILITY SKILLS
0	Standard	1) 2. Explain the importance critical thinking and problem solving skills in the workplace.
0	Standard	2) 3. Explain interpersonal relationship skills, self-presentation, and key workplace issues such as sexual harassment, stress, and substance abuse.
0	Duty	11) M - PRACTICE SAFE AND EFFECTIVE USE OF HAND AND PORTABLE POWER TOOLS
1	Standard	1) 1. Utilize a saber/jig saw to plunge/cut curves
2	Standard	2) 3. Utilize a router to shape edges
0	Standard	3) 4. Utilize plate and biscuit joiners for square and angled joints
0	Standard	4) 5. Utilize a sander for roughing and finishing
0	Duty	12) N - PRACTICE SAFE AND EFFECTIVE USE OF STATIONARY WOODWORKING MACHINES
2	Standard	1) 1. Cut arcs and circles with a saw
2	Standard	2) 2. Set up, adjust and bore using a drill
0	Standard	3) 3. Utilize a jointer.
2	Standard	4) 4. Utilize a router in a router table
0	Standard	5) 5. Utilize a surfacer to plane and smooth surfaces
0	Duty	13) O - EXAMINE COMPUTERS AND COMPUTER-CONTROLED EQUIPMENT IN WOODWORKING
0	Standard	1) 1. Find information on (Computer Aided Drafting and Design) CADD drawings
0	Duty	14) P - INTERPRET PLANS AND PRINTS
2	Standard	1) 2. Specify wood stock for compatibility of grade
0	Standard	2) 3. Construct wood products from plans
0	Duty	15) Q - CUT AND SHAPE STOCK
2	Standard	1) 2. Cut panelized materials to size and shape
0	Duty	16) R - DEMONSTRATE PRINCIPLES OF JOINERY
0	Standard	1) 3. Layout and make a dado joint
0	Standard	2) 4. Layout and make a rabbet joint
0	Standard	3) 5 .Layout and make a half-lap joint
1	Standard	4) 6. Layout and make a miter joint
0	Standard	5) 7. Layout and make a tongue and groove joint

0	Standard	6) 8. Layout and make a mortise and tenon joint
0	Standard	7) 9. Layout and make a finger joint.
0	Duty	17) S - ASSEMBLE WOOD PRODUCTS USING FASTENERS, ADHESIVES AND HARDWARE
1	Standard	1) 1. Use adhesives appropriate to the application
0	Standard	2) 2. Apply clamping devices.
0	Standard	3) 4. Use fasteners to install products
0	Standard	4) 5. Glue boards edge to edge.
0	Standard	5) 6. Construct case/box.
0	Standard	6) 8. Attach molding/trim.
0	Standard	7) 9. Install cabinet hardware.
0	Duty	18) T - DEMONSTRATE FINISHING MATERIALS AND PROCESSES
3	Standard	1) 1. Explain the purpose and appropriate applications of various types of finishes and finishing processes
2	Standard	2) 3. Apply filler to a wood surface
1	Standard	3) 4. Select and use appropriate abrasive types and grit sizes
0	Standard	4) 5. Paint or stain a wood surface
0	Standard	5) 9. Repair blemishes/touch up finishes.
0	Standard	6) 10. Select finishing materials for compatibility.
81	**Correlations**	
81	**Total Correlations**	