

CONSTRUCTION WORK/2 (180 Hours)

Course No.: 71-35-60

COMPETENCY CHECKLIST

Student Name _____

Teacher Name _____ School Site _____

Start Date _____ Completion Date _____ Certificate Date _____

Teacher Signature _____ Student Signature _____

(Signatures verify completion of course competencies)

A. INTRODUCTION AND SAFETY (9 hrs)

- _____ 1. Scope and purpose of the course
- _____ 2. Course content as part of Linked Learning
- _____ 3. Classroom policies and procedures
- _____ 4. Class/workplace emergency procedures
- _____ 5. Occupations that impact construction work
- _____ 6. Promoting gender equity/non-trad hiring
- _____ 7. Impact of EPA legislation on building trades
- _____ 8. Proper disposal of hazardous materials
- _____ 9. MSDS applied to the construction industry
- _____ 10. LEED and green building practices in CA
- _____ 11. City of LA Building and Safety Codes
- _____ 12. Provisions of CA Title 24 Energy Standards
- _____ 13. Cal-OSHA laws governing construction work
- _____ 14. Responsibilities for safe workplace
- _____ 15. Safety test

B. RESOURCE MANAGEMENT REVIEW (1 hr)

- _____ 1. Review definitions related to topic
- _____ 2. Importance of resource management
- _____ 3. Examples of effective resource management
- _____ 4. Benefits of effective resource management
- _____ 5. Economic/environmental benefits/liabilities

C. TRADE MATHEMATICS REVIEW (10 hrs)

- _____ 1. Practical application of math in construction
- _____ 2. Problem-solving techniques: whole number
- _____ 3. Problem-solving techniques: fractions
- _____ 4. Problem-solving techniques: decimals
- _____ 5. Changing fractions to decimals
- _____ 6. Changing decimals to fractions
- _____ 7. English system of measuring length
- _____ 8. English system of measuring weight
- _____ 9. English system of measuring volume/capacity
- _____ 10. Relationships of linear units of measurement

- _____ 11. Relationships of units of volume/capacity
- _____ 12. Measuring w/English system tools of trade
- _____ 13. Problem-solving: geometric problems
- _____ 14. Problem-solving: algebraic problems
- _____ 15. Problem-solving: percentages
- _____ 16. Reading and interpreting graphs
- _____ 17. Demonstrate using a calculator

D. PLUMBING I (40 hrs)

- _____ 1. Safety issues specific to plumbing
- _____ 2. Plumbing tools, components & fixtures
- _____ 3. Use of cutting and threading tools
- _____ 4. Uses for different types/sizes of pipes
- _____ 5. Operation of plumbing fixtures
- _____ 6. Proper soldering techniques
- _____ 7. Repairing/replacing various types of valves
- _____ 8. Repairing various plumbing problems
- _____ 9. Replacing faucets/shower heads etc.
- _____ 10. LEED vs. standard plumbing materials

E. ELECTRICAL I (40 hrs)

- _____ 1. National & local electrical code specifications
- _____ 2. Safety issues specific to the wiring system
- _____ 3. Identify electrical tools and wiring components
- _____ 4. Demo use of tools and wiring components
- _____ 5. Metallic vs. non-metallic sheathed cables
- _____ 6. Function of main switches/circuit breakers/fuses
- _____ 7. Replacing wall receptacles and wall switches
- _____ 8. LEED approved electrical vs. standard materials

F. DRYWALL INSTALLATION (40 hrs)

- _____ 1. Drywall saws/nails/screws & utility knives
- _____ 2. Demonstrate use of drywall tools/materials
- _____ 3. Techniques for taping and spackling drywall
- _____ 4. Applying compound & matching surface finish

- _____ 5. Applying corner beading
- _____ 6. Hang drywall, use nail patterns to local code
- _____ 7. LEED approved vs. standard materials

G. POWER TOOLS (35 hrs)

- _____ 1. Electric and pneumatic power hand tools
- _____ 2. Use/maintenance/storage of power tools
- _____ 3. Operation of support equipment
- _____ 4. Precautions when using tools/machines

H. EMPLOYABILITY SKILLS REVIEW (5 hrs)

- _____ 1. Employer requirements in an employee
- _____ 2. Update research on potential employers
- _____ 3. Review role of social media in job search
- _____ 4. Update a sample resume and cover letter
- _____ 5. Filling out a job application legibly
- _____ 6. Review common mistakes on job application
- _____ 7. Complete sample application form correctly
- _____ 8. Enthusiasm on a job
- _____ 9. Appropriate appearance on a job
- _____ 10. Continuous upgrading job skills
- _____ 11. Importance of customer service to business
- _____ 12. Demo appropriate interview techniques
- _____ 13. Materials/resources for interview success
- _____ 14. Update a sample follow-up letter
- _____ 15. Demo appropriate follow-up techniques