

# A+ CERTIFICATION/3 (180 Hours)

Course No.: 74-15-70

## 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 (4 hrs)

- \_\_\_\_\_ 1. Scope and purpose of the course
- \_\_\_\_\_ 2. Course content as part of linked learning
- \_\_\_\_\_ 3. Classroom policies & procedures
- \_\_\_\_\_ 4. Class & workplace first aid/ARC standards
- \_\_\_\_\_ 5. Jobs available in industry sector
- \_\_\_\_\_ 6. Promoting gender equity/non-trad
- \_\_\_\_\_ 7. EPA legislation impact on industry practices
- \_\_\_\_\_ 8. Proper removal of hazardous materials
- \_\_\_\_\_ 9. MSDS as it applies to computer technology
- \_\_\_\_\_ 10. CA Title 24 energy efficiency standards
- \_\_\_\_\_ 11. CAL/OSHA laws and computer technicians
- \_\_\_\_\_ 12. Insuring a safe workplace
- \_\_\_\_\_ 13. Pass the safety test with 100% accuracy

### B. RESOURCE MANAGEMENT REVIEW (1 hr)

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

### C. COMPUTER MATH REVIEW (5 hrs)

- \_\_\_\_\_ 1. Powers of ten and decimal number system
- \_\_\_\_\_ 2. Metric prefixes associated with computers
- \_\_\_\_\_ 3. Binary number system
- \_\_\_\_\_ 4. Conversion of decimals to binary numbers
- \_\_\_\_\_ 5. Conversion of binary numbers to decimals
- \_\_\_\_\_ 6. Hexadecimal number system
- \_\_\_\_\_ 7. Conversion of decimal to hexadecimal
- \_\_\_\_\_ 8. Conversion of hexadecimal to decimal
- \_\_\_\_\_ 9. Conversion of hexadecimal to binary
- \_\_\_\_\_ 10. Conversion of binary to hexadecimal
- \_\_\_\_\_ 11. Review ASCII code
- \_\_\_\_\_ 12. Pass written computer math exam

### D. NETWORKING (50 hrs)

- \_\_\_\_\_ 1. Basic networking terms/devices/protocols
- \_\_\_\_\_ 2. Cables/ connectors: categorize/implement
- \_\_\_\_\_ 3. Compare/contract different network types
- \_\_\_\_\_ 4. Pass written networking exam

### E. SECURITY (20 hrs)

- \_\_\_\_\_ 1. Define listed terms related to security
- \_\_\_\_\_ 2. Basic security/encryption concepts
- \_\_\_\_\_ 3. Security features
- \_\_\_\_\_ 4. Pass written security exam

### F. TROUBLESHOOTING (95 hrs)

- \_\_\_\_\_ 1. Define terms related to troubleshooting
- \_\_\_\_\_ 2. Steps in formulating troubleshooting theory
- \_\_\_\_\_ 3. Identify/interpret symptoms & causes
- \_\_\_\_\_ 4. Troubleshooting printing problems
- \_\_\_\_\_ 5. Identify potential laptop problems
- \_\_\_\_\_ 6. Troubleshooting for common laptop issues
- \_\_\_\_\_ 7. Common preventive maintenance techniques
- \_\_\_\_\_ 8. Pass written troubleshooting exam

### G. ENTREPRENEURIAL SKILLS (5 hrs)

- \_\_\_\_\_ 1. Define entrepreneurship
- \_\_\_\_\_ 2. Characteristics of successful entrepreneurs
- \_\_\_\_\_ 3. Contributions to mobile electronics industry
- \_\_\_\_\_ 4. Purpose/components of a business plan
- \_\_\_\_\_ 5. Examine goals prior to starting a business
- \_\_\_\_\_ 6. Sources of monetary investment in a business
- \_\_\_\_\_ 7. Licensing requirements in electronics business
- \_\_\_\_\_ 8. Scenario: Depicting student as business owner
- \_\_\_\_\_ 9. LEED business practices vs. standard practices