



## **THE 7 SINS OF SAFETY TRAINING CERTIFICATION TEST (DVD-66)**

**This test consists of twenty-five multiple-choice questions. All questions are from the video: The 7 Sins of Safety in Electronics Assembly (DVD-66).**

**Each question has only one *most* correct answer. Circle the letter corresponding to your selection for each test item. If you wish to change an answer, erase your choice completely.**

**You should read through the questions and answer those you are sure of first. After your first pass through the test, then go back and answer the questions that you were not sure of. If two answers appear to be correct, pick the answer that seems to be the most correct response.**

**When you are finished, check to make sure you have answered all of the questions. Turn in the test materials to the instructor.**

**The passing grade for this test is 70% (18 correct answers or better).**

**Good luck!**



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- 1. When working on machines with moving parts, long hair should be**
  - a. kept in the middle of your back to avoid getting tangled
  - b. contained to shoulder length using ties, pins or a hairnet
  - c. slicked back using plenty of hair gel
  - d. long hair is not a safety issue on the production floor
  
- 2. Safety glasses should be worn when**
  - a. soldering
  - b. clipping component leads
  - c. loading assemblies in a wave soldering machine
  - d. all of the above
  
- 3. Open toed shoes can be worn when**
  - a. doing light lifting
  - b. sitting at your workstation
  - c. loading small component reels on placement machines
  - d. none of the above
  
- 4. Which of the following provides an effective seal with respirators**
  - a. a close shave
  - b. facial hair
  - c. missing dentures
  - d. perforated eardrums
  
- 5. Soldering irons should be never be**
  - a. used as a screwdriver in an emergency
  - b. used as a pointer to emphasize a defective solder joint
  - c. picked up by the tip
  - d. all of the above
  
- 6. When you need to remove excess solder from the tip of an iron**
  - a. wipe it with a gripper hot pad
  - b. flick it onto a non-conductive floor surface
  - c. wipe it with a damp sponge mounted in a sponge holder
  - d. never waste solder by removing it from the tip
  
- 7. Scalpels or Exacto knife blades**
  - a. are very sharp and can cut your skin easily
  - b. should always be covered when not in use
  - c. should be disposed of in a special container
  - d. all of the above



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### 8. When you sit slumped at your workstation

- a. you are most relaxed
- b. there is more strain on your spine
- c. you are able to stretch your legs, improving circulation
- d. you can dangle your feet so they don't fall asleep

### 9. Tools and materials should be arranged

- a. in an arc – so you reach the same distance for everything
- b. so the tools you use most often are to your left
- c. so the tools you use most often are to your right
- d. so your body twists and stretches when you reach for a tool

### 10. Ergonomics has to do with

- a. the economic realities of electronics assembly
- b. a soldering technique required for a chisel tip
- c. fitting your workstation to you
- d. quality inspection of electronic assemblies

### 11. In the event of an emergency, you will need to know

- a. the closest evacuation route
- b. both primary and secondary evacuation routes
- c. the location of primary circuit breakers
- d. the location of your safety representative

### 12. The potential health hazard of solder is

- a. the lead in the solder
- b. the smoke that comes off the solder resin
- c. using high soldering temperatures that atomize the solder
- d. all of the above

### 13. To avoid ingesting lead

- a. never bite off solder wire with your teeth
- b. wear safety glasses while soldering
- c. drink milk before soldering
- d. all of the above

### 14. The Haz-Mat sign

- a. contains information on how to safely handle a chemical
- b. contains emergency procedures for dealing with injuries
- c. shows the health hazard, flammability, reactivity and specific warnings
- d. lists appropriate protective equipment for handling chemicals



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### 15. Material Safety Data Sheets

- a. are color coded based on the toxicity of a chemical
- b. contain specific safety information for a product and how to handle it safely
- c. are for engineers and don't concern you
- d. list evacuation routes to take in the event of a chemical spill

### 16. The correct lifting procedure involves

- a. bending at the knees, not the waist
- b. being close to the load
- c. keeping your back straight and lower back curved inward before standing up
- d. all of the above

### 17. When picking up a heavy object

- a. let your arms do most of the lifting
- b. let your back do most of the lifting
- c. let your legs do most of the lifting
- d. let your shoulders do most of the lifting

### 18. It can be like lifting an extra fifty pounds when

- a. you have to reach out to an object in order to lift it
- b. you store items on shelves
- c. you get help carrying a heavy item
- d. you let your legs do the lifting

### 19. A muscular-skeletal disorder can occur when you

- a. stretch regularly
- b. perform a simple task repeatedly that slightly hurts some part of your body
- c. live an unhealthy lifestyle
- d. all of the above

### 20. The most common joint to suffer a muscular-skeletal disorder is the

- a. wrist
- b. elbow
- c. knee
- d. neck

### 21. Which of the following lowers the risk of wrist injury pain

- a. keeping your wrist straight, in line with your hand
- b. gripping a tool with the whole hand, rather than the thumb and index finger
- c. not holding objects in the same position for long periods
- d. all of the above



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- 22. One of the best preventive measures to avoid muscular skeletal disorders is to**
- a. tune out all physical symptoms
  - b. take aspirin regularly
  - c. do some simple stretching exercises every few hours
  - d. refuse to work more than 6 hours per day
- 23. Good housekeeping means**
- a. having your own unique system for arranging your work surface
  - b. keeping your work area clean and neat, only having materials needed to do your job
  - c. making sure clipped leads and solder drippings are gathered in one neat pile
  - d. having a janitorial service clean up after you
- 24. Tools that have damaged electrical cords should be**
- a. wrapped with electrical tape and used if they still work
  - b. recycled or thrown away
  - c. tagged and reported to maintenance
  - d. left for the person on the next shift to deal with
- 25. Barrier tape is used to**
- a. let you know an area is temporarily off limits during repair or spill clean-up
  - b. disable the energy source to a piece of equipment
  - c. warn that a piece of equipment should not be used
  - d. create barriers between production and office personnel