

Test Administration Instructions



SAFETY EXCELLENCE INITIATIVE

How to Administer Tests to Trainees

In this document, you will find a 20-question multiple-choice test that corresponds with a particular MCAA Safety Training Video.

1. Ensure that you have the test that corresponds with the planned video training.
2. Make one copy of the test for each trainee.
3. Give one test to each trainee. Remind them to put their name on each page of their copy in case pages become separated.
4. Collect all test papers after they are completed.
5. Grade the tests using the answer keys provided in the "Answer Keys" document at www.mcaa.org/private/videos.
6. Return the graded test papers to each trainee. Make sure they understand the correct answers to all of the test questions they answered incorrectly.
7. Collect **ALL** of the test papers and place them in a secure file.
8. Keep the completed test papers with your documentation for this video to show proof of worker training.

Safe Transmission: RF Awareness for Mechanical Service



SAFETY EXCELLENCE INITIATIVE

Name: _____

Directions – Circle the letter corresponding to the best answer for each question.

1. RF stands for
 - a. radiation frequency.
 - b. radio wave frequency.
 - c. radiation forecast.
 - d. radio frequency radiation.

2. RF is _____ used to provide telecommunications services without wire.
 - a. waves
 - b. matter
 - c. energy
 - d. frequency

3. RF may be harmful to service techs, but only if they're
 - a. too close to the source.
 - b. close enough to the source for a long enough period of time.
 - c. within 50 yards of the source for a long enough period of time.
 - d. not wearing Nomex protective clothing while near the source.

4. The major concern regarding overexposure to RF is
 - a. overheating human body tissue.
 - b. melanoma.
 - c. hearing loss.
 - d. loss of tactile sensation in the hands and feet.

5. Since RF is not the same type of radiation generated from x-ray machines it is considered to be
 - a. alpha.
 - b. non-ionizing.
 - c. beta.
 - d. ionizing.

More...

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6. Cellular telephone antennas are _____ in shape and emit RF in one general direction.
 - a. cylindrical
 - b. square
 - c. rectangular
 - d. hexagonal

7. The type and shape of telecommunications antenna that emits RF all the way around (360°) is a
 - a. cylindrical rod.
 - b. dish.
 - c. radar.
 - d. vertical rectangle.

8. Antennas that are made to blend into the building-scape often look like
 - a. flag poles or steeples.
 - b. a part of a building.
 - c. trees, plants, or clocks.
 - d. all of the above.

9. When you're working anywhere near a telecommunications antenna, it's always important to assume that
 - a. the antenna is active.
 - b. the antenna has been powered down.
 - c. if the antenna is only warm to the touch it's inactive.
 - d. the ionizing radiation levels could be above FCC permissible exposure levels.

10. Dish shaped transmitting antennas emit RF in
 - a. one general direction.
 - b. two general directions.
 - c. multiple directions.
 - d. Transmitting antennas don't emit RF.

11. Your best ally for preventing overexposure to RF is
 - a. limiting exposure time.
 - b. distance away from the source.
 - c. an EMF monitor.
 - d. Nomex protective clothing.

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12. When assessing the potential for RF exposure on a rooftop, ask the site manager for
 - a. the maximum permissible exposure levels.
 - b. an FCC building map.
 - c. the FCC's radiation survey.
 - d. the building's RF radiation survey.

13. You can work without concern for overexposure when your work area RF levels are less than _____ of the maximum permissible exposure level.
 - a. 100%
 - b. 110%
 - c. 150%
 - d. none of the above

14. RF protective clothing, which is made of Nomex, is
 - a. non-conductive.
 - b. slightly conductive.
 - c. highly conductive.
 - d. highly flammable.

15. When determining whether there could be RF exposure on a rooftop, look for warning signs showing the _____ radiation warning symbol.
 - a. alpha particles
 - b. beta particles
 - c. gamma ray
 - d. electromagnetic

16. Stay at least _____ feet away from a single telecommunications antenna emitting RF in your direction.
 - a. 3
 - b. 5
 - c. 6
 - d. 10

17. Stay at least _____ feet away from more than one telecommunications antennas emitting RF in your direction.
 - a. 3
 - b. 5
 - c. 6
 - d. 10

More...

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Name: _____

18. Active RF antennas are usually very

- a. noisy.
- b. hot.
- c. flexible.
- d. warm to the touch.

19. RF can sometimes negatively effect

- a. prostheses.
- b. pacemakers.
- c. stents.
- d. all of the above.

20. If RF protective clothing, which is made of Nomex, is worn correctly, it will help protect you up to _____ of the maximum permissible exposure level.

- a. 50%
- b. 100%
- c. 1,000%
- d. 1,500%