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Continuing Education Course #226
Introduction to Thermal Imaging

1. The sequence of colors in the visible light spectrum varies according to the time of day.
 a. True
 b. False
2. The relationship between the wavelength and frequency of light waves is:
 a. As wavelengths become longer, wave frequencies increase
 b. As wavelengths become shorter, wave frequencies increase
 c. As wavelengths become shorter, wave frequencies decrease
 d. As wavelengths become longer, wave frequencies do not change
3. The Electromagnetic Spectrum includes:
 a. Microwaves
 b. Radio waves
 c. Visible light
 d. All of the above
4. Thermal imaging technology is measuring the heat emitted from an object.
 a. True
 b. False
5. Which is a method of heat transfer?
 a. Radiation
 b. Absorption
 c. Condensation
 d. Electronic
6. The rate at which heat transfers is dependent upon which of the following variables:
 a. Temperature
 b. Distance
 c. Emissivity
 d. All of the above
7. Objects that are good absorbers of infrared energy are good emitters of infrared energy.
 a. True
 b. False
8. What is the range of an emissivity value of a material?
 a. between 1 and 100
 b. between 0 and 1,000

- c. between -1 and +1
- d. between 0 and 1

9. Which object would report a higher emissivity value?

- a. a pipe
- b. a tube
- c. a concave container
- d. a cable

10. Long-Wave Infrared is the largest portion of the IR spectrum.

- a. True
- b. False

11. Which component of thermal imaging equipment measures the IR energy?

- a. Detector
- b. Meter
- c. Probe
- d. Heat monitor

12. Night Vision Devices (NVD) use ambient light to detect objects in the dark.

- a. True
- b. False

13. Thermal imaging is ideal for preventive maintenance applications because:

- a. it can detect subtle temperature differences
- b. it does not interrupt machinery operations
- c. it produces immediate images and measurements
- d. All of the above

14. Medical thermography has been used to evaluate the presence of inflammation due to:

- a. insect bites
- b. arthritis
- c. sun exposure
- d. high blood pressure

15. Level 4 thermographers are experienced thermography program managers.

- a. True
- b. False

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