



FESS Emergency Lighting Pathway

Section E: Assessment of Underpinning Knowledge

Study Guide

To help candidates prepare for Section E of the FESS End Point Assessment (Emergency Lighting Pathway), NET has compiled a series of questions which cover some of the knowledge needed for the test.

The answers are not provided for this study guide. Candidates should discuss their suggested answers with their training providers to look at where further learning or practice may be needed.

1. When installing self-contained emergency luminaires, what circuit would you wire them into?

- a) A local 230Vac lighting circuit
- b) A spare circuit at the distribution board
- c) A local power circuit
- d) A local switched supply

2. What must be displayed on all direction and final exit escape signs?

- a) The word Exit in green
- b) The running man
- c) The words: Fire Exit
- d) A symbol showing Fire

3. What ingress protection rating should you look for on an emergency luminaire you are planning to install externally in an exposed location?

- a) IP 20
- b) IP 43
- c) IP 44
- d) IP 66

4. What is the name of an emergency luminaire which has more than one lamp and one is dedicated to emergency use when the mains fails?

- a) Conversion
- b) Non-Maintained
- c) Self Test
- d) Combined or sustained

5. What is the recommended period for regular testing of emergency luminaires?

- a) Weekly
- b) Monthly
- c) Bi – Annually
- d) Annually

6. Complete the sentence: "Toilet facilities exceeding (.....) including any cubicles, should be provided with emergency lighting as if they were open areas."

- a) 4 square meters
- b) 8 square meters
- c) 12 square meters
- d) 20 square meters

7. What would you expect to be able to observe on a self-test emergency luminaire?

- a) A clear label stating self test
- b) Both lamps in operation at all times
- c) Extra cables for test purposes
- d) A combination of indicator lights

8) What is the purpose of a resistor in an electronic circuit?

- a) To amplify or switch electronic signals
- b) To limit current flow
- c) To store electrical energy
- d) To allow current to flow in one direction while blocking the current flow in the opposite direction

9. Under what circumstances can cables be laid loosely on suspended ceiling tiles?

- a) Never
- b) When the ceiling tiles are up before you arrive on site
- c) When the site foreman approves it
- d) When the false ceiling is less than 800mm below the concrete slab

10. What is the overall resistance value of two 2.2 KOhm resistors connected in parallel?

- a) 1.1 KOhms
- b) 4.4 Ohms
- c) 1.2 KOhms
- d) 4.4 KOhms

11. Where enclosures are rated for weather resistance, what does the second digit of the rating refer to?

- a) Resistance to ingress to solids
- b) Resistance to mechanical damage
- c) Resistance to impact
- d) Resistance to ingress of fluids

12. A cable that gives off reduced emissions can be branded as 'LSF' if...?

- a) It conforms to British Standards
- b) It is made of light sustainable fabric
- c) It gives off zero emissions
- d) It gives off reduced emissions



ADDITIONAL PRACTICE / STUDY HELP

For these additional questions you may need to go away and do some research. They're intended to help you gain the kind of knowledge you'll need for the online test.

Please note the actual online test during your assessment is completely multiple choice. You will not be presented with the style of question you find below.

Discuss the questions and your answers with your training provider.

13. What is the final approximate resistance of the following resistors connected in parallel? 200 Ohms, 470 Ohms and 220 Ohms? Show your formula and working out

14. What is the first activity that must be completed to prove a circuit is dead after isolation?

15. For what time period should the full level of emergency illumination be maintained in a medical treatment room?

16. As well as other requirements, The Construction (Design and Management) Regulations 2015, stipulate that emergency exits must do what?

17. What is the correct way to lift a load?

18. What is the general statement for managing waste?

19. What is the main reason for attending a site induction?

20. You have to install emergency luminaires in a Zone 1 hazardous area. What fittings should you use?