

**Level 2 Fire & Security Pathway**  
**Example questions to assist with the**  
**Assessment of Underpinning Knowledge**

The example questions are intended to help candidates prepare for the FESS underpinning knowledge test (Combined Fire & Security Pathway)

For these questions you may need to do some research. They are intended to help you gain the level of knowledge you will need for the online test.

The answers are not provided, and candidates should carry out their own research, discuss their suggested answers with colleagues and/or employers as required

**1 Which of these gases is included in the fire triangle model?**

- a) Oxygen
- b) Hydrogen
- c) Methane
- d) Helium

**2. What is the maximum acceptable sound pressure in accessible areas?**

- a) 65 db
- b) 75 db
- c) 90 db
- d) 120 db

**3. Automatic fire detection should be provided in any area that contains a horizontal void that is more than:**

- a) 500 millimetres or more in height
- b) 1000 millimetres or more in height
- c) 800 millimetres or more in height
- d) 600 millimetres or more in height

**4 In escape routes in Category L systems, which type of detector must not be used?**

- a) optical smoke detector
- b) heat detector
- c) carbon monoxide detector
- d) aspirating detector

**5. Fire detection and fire alarm systems intended for protection of property are:**

- a) Category L systems
- b) Category P systems
- c) Category Y systems
- d) Category L5 systems

**6. When installing GPRS alarm transmission devices, which location is unlikely to be successful?**

- a) Basement
- b) 1st floor
- c) Loft
- d) A high floor

**7. Which of the following is not an example of a permit to work system?**

- a) Live working on AC mains circuit
- b) Safe Isolation procedures
- c) Hot works approval
- d) Risk assessment and method statement

**8. What factor has an environmental effect on the performance of a CCTV system?**

- a) Weather
- b) User competence
- c) Cost of equipment installed
- d) Age of installation

**9. Analogue CCTV transmission over RG59 coaxial cable has a maximum distance of:**

- a) 213 metres
- b) 100 metres
- c) 426 metres
- d) 1000 metres

**10. Where would you measure the voltage supply for a device?**

- a) The auxiliary supply terminals at the CIE
- b) At the battery terminals in the CIE
- c) At the component supply terminals
- d) At the expander auxiliary supply terminals

## **ADDITIONAL PRACTICE / STUDY HELP**

For these additional questions you may need to do some further research as they do not contain suggested answers. They are intended to help you gain the level of knowledge you will 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.

- 11. Ultraviolet flame detectors should not be used as the sole means of fire detection in which areas?**
- 12. Automatic transmission for a category P system is?**
- 13. Where the sound pressure level of background noise is greater than 60 dB(A), the sound pressure level of the fire alarm signal is required to be above the sound pressure level of the background noise by?**
- 14. Visual alarm signals should be provided in areas where hearing protection is likely to be used under normal circumstances or where the ambient noise level exceeds?**
- 15. Where manual call points (MCPs) are viewed from the side (e.g. corridors), they should be surface mounted or semi-recessed with the front face proud of the mounting surface by at least?**
- 16. Measuring the quiescent and full alarm current of an intruder alarm requires a?**
- 17. Why do premises, where alcohol is consumed, have CCTV systems installed?**
- 18. Access control systems are often integrated with fire alarm systems to aid what?**
- 19. Which of the following is not part of the handover of the system?**
- 20. How does the use of abort timers reduce false alarm calls to the police?**