

Fire Service Electrical Fitter Intermediate Trade Test Study Material for Written Test

(Version : IFE-SM-EN-01)



此文件關於消防冷氣裝配工中級工藝測試技術知識測試（筆試）內容參考資料。
如需索取此文件的中文版本，請致電 2100 9000 與香港建造業工藝測試中心聯絡。

Disclaimer

No part of this material may be reproduced or transmitted in any form or by any means without the written permission from the Construction Industry Council (CIC). Whilst reasonable efforts have been made to ensure the accuracy of the information contained in this material, the CIC nevertheless would encourage readers to seek appropriate independent advice from their professional advisers where possible and readers should not treat or rely on this material as a substitute for such professional advice for taking any relevant actions. The CIC will not assume any liability in relation to any loss or damage directly or indirectly resulted from unintended or/and unforeseeable use of this document.

This document is provided as reference for test preparation only. Under all circumstances all content in the official test papers, including but not limited to the terms and conditions therein, prevails.

The CIC reserves the right, at its sole and absolute discretion, to change, update or delete the contents in this document at any time without prior notice.

The CIC reserves all rights of final interpretation for any content in this document.

Enquiries

Enquiries on this material may be made to Hong Kong Construction Industry Trade Testing Centre at:

Address: 95 Yue Kwong Road, Aberdeen, Hong Kong

Tel: (852) 2100 9000

Fax: (852) 2100 9090

Email: hkcittc@cic.hk

Website: www.cic.hk

Fire Service Electrical Fitter Intermediate Trade Test

Study Material for Written Test

This study material is a reference for candidate to prepare for attending written test in Intermediate Trade Test:

1. When live phase conductor directly contacts neutral conductor, it will become short circuit.
2. The neutral wire is coated in blue colour.
3. The measuring unit of voltage is volt (V).
4. Brown coloured wire should connect to the position marked “L” inside the plug.
5. The measuring unit of current is ampere (A).
6. Blue coloured wire should connect to the position marked “N” inside the plug.
7. When installing extra-low voltage circuits for fire alarm system, it cannot be installed in the conduit with power cable inside.
8. When installing wiring inside the control board of an intelligent fire protection system, 24V DC should be used.
9. Touching an electricity switch with moist body have greater risk of electric shock than the one with dry body as moist body has lower resistance values than dry body.
10. The writing fault monitor (resistor or capacitor) of fire alarm output and monitoring zone input of fire control panel should be installed inside the installation and at the end of the circuit.
11. For wiring installation using PVC or plastic conduit, conduit bends should have an internal radius of at least 4 times the outside diameter of the conduit.
12. The power distribution system in Hong Kong is using 3-phases 4-wires.
13. The handheld electrical appliance is not needed to connect to earth when it is made of double insulation.
14. When a 13A plug connects to a flexible cord, the green and yellow cable is earth wire.
15. Currently, galvanized steel conduit is usually used as wiring conduit for fire alarms.
16. According to the requirement of Fire Services Department, the maximum height of the manual fire alarm call points should be 1200mm above the finished floor level.

17. To facilitate people in wheelchair to operate the manual (break glass) fire alarm device, it should be installed at a height not more than 1.2 metres from the floor.
18. According to “Design Manual: Barrier Free Access” published by Buildings Department, apart from sound-based alarm system, visual alarm signals should be installed as common fire-fighting system.
19. When drilling holes in a metal box, safety goggles should be worn.
20. Power overload can cause a fire.

Precautions

This document is provided as reference for test preparation only. Under all circumstances all content in the official test papers, including but not limited to the terms and conditions therein, prevails. There are different versions of the test paper, content include but not limited to tools, materials, equipment, drawing, construction details or procedures and different simulated site environments. Candidates should refer to the official test documents during testing.

The CIC reserves the right, at its sole and absolute discretion, to change, update or delete the contents in this document at any time without prior notice.