

# Plumber

## Intermediate Trade Test

### Study Material for Written Test

( Version : IPM-SM-EN-02 )



此文件關於水喉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](mailto:hkcittc@cic.hk)

Website: [www.cic.hk](http://www.cic.hk)

# Plumber 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. During pressure test to test for water leakage, it is necessary to allow gas exhaust from pipes when injecting water into pipes, check whether the draft line moves downward during pressurisation and make sure the test pressure satisfy the construction requirement.
2. The label "C/C" shown on the drawing stands for centre-to-centre distance of the pipes.
3. According to the Waterworks Regulations, provisions must be made for a drain-off pipe to enable the cistern to be emptied.
4. To tighten flanges, it should be tightened gradually in diagonal angles.
5. Plastic and cast-iron pipes are the most suitable pipes for foul drain such as faecal.
6. The main reason of leakage at the welded part of copper pipes are the pipes melted for too long time and the melting temperature is too high.
7. Pipes made of copper is the most suitable pipes for hot water system.
8. To distinguish copper gate valve and loose jumper type stopcock (stop valve) by appearance, loose jumper type stopcock has water flow direction mark and an adjustable switch handle.
9. Where pipes pass through the slab or wall, pipe sleeve shall be provided with uniform annular clearance of 2 - 12mm to the pipe in order to allow expansion and movement of pipe.
10. The internal diameter of flushing pipes shall in the case of water closet fitments, trough water closet and slop sinks, be not less than 32mm.
11. The internal diameter of every anti-syphonage pipe shall, if the diameter of the soil pipe or waste pipe to which it is connected is 80mm or more, be not less than 50mm.
12. Flushing cistern shall, discharge to the water closet fitment of slop sink, on each occasion such fitment is used, not less than 7.5L of water.
13. To ensure safety, worker should wear proper Personal Protective Equipment (PPE) including safety helmet and protective goggles when using hand-held hammer and steel chisel to open up/drilling holes on wall.

14. The symbol “回” showed on hand-held electrical tools means it is double insulated and no earthing is needed.
15. According to the "Construction Sites (Safety) Regulations", safety helmet shall be worn when entering a construction site.
16. According to the Waterworks Ordinance (WWO), water samples from new fresh water supply system should test for lead concentration.
17. According to Hong Kong Waterworks Standard Requirements for Plumbing Installation in Buildings, loose jumper type stopcock and gate valves/non-return valve shall be provided before meter positions.
18. If the electrical tool is malfunction, worker should stop operating the tool and report to the supervisor to arrange for repairing.
19. Safety harness should be worn when working at height. The proper way to wear the safety harness is to attach the snap hook at higher level than user's waist.
20. The minimum width of the working platform for a double-layered scaffold is 400 mm.

#### **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.