

# **Refrigeration / Air-conditioning / Ventilation Mechanic (Water System) Intermediate Trade Test Study Material for Written Test**

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此文件關於空調製冷設備技工（水系統）中級工藝測試技術知識測試（筆試）內容參考資料。  
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This study material is a reference for candidate to prepare for attending written test in Intermediate Trade Test:

1. In general, for chiller water pipe systems in a central air-conditioning system, black steel pipe is used.
2. Yellow/green coloured wire should connect to the position marked “E” inside the plug.
3. When a 13A plug connects to a flexible cord, the green and yellow cable is earth wire.
4. The electrical voltage for single phase power in Hong Kong is 220 volts.
5. To put out electrical fire or fire caused by electrical equipment, it is suitable to use carbon dioxide gas type or dry powder type extinguisher.
6. Comparing thermal conductivity of water and air, water is better than air.
7. Types of pipes used for condensate drainpipe includes galvanised steel pipe and PVC pipe.
8. In general, the cooling water globe valves of fan coils are installed at chilled water outlet of the fan coil.
9. The function of cooling water flow switch is to turn off the compressor once the chilled water stops flowing.
10. A cooling water system controlled by two-way valve changes the water flow of the water cooler to adjust the change in loading.
11. To deal with the temperature change of circulating water, as well as thermal expansion and contraction, there is a need to install expansion tank in the cooling water system.
12. The function of earth leakage circuit breaker among the electricity safety device is to prevent electric shock.
13. The symbol “回” showed on hand-held electrical tools means it is double insulated and no earthing is needed.
14. When threading by conduit die wrench, the threading direction should be clockwise.

15. According to Construction Sites (Safety) Regulations, no person should enter a construction site unless he/she is wearing a suitable safety helmet.
16. When fault occurs in fixed electrical installation, it should be repaired by a registered electrical worker.
17. When there is a problem with an electrical tool, worker should stop using it and report to the person in charge/supervisor to arrange repairing.
18. If oil stain is spotted on the floor, one should clean it immediately.
19. If someone is on electrical shock, one should immediately switch off the power.
20. When moving iron steel and drainpipe, one must wear non-slip gloves.

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