

Refrigeration / Air-conditioning / Ventilation Mechanic (Thermal Insulation) 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(保溫)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。

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

1. A notable disadvantage of polystyrene insulation over other thermal insulation materials is that polystyrene insulation has a relatively poor fireproof performance. It produces heavy smoke when burning and is not suitable for thermal insulation in high temperature areas.
2. In general, the pipe used for chiller water pipe system in a central air-conditioning system is black steel pipe.
3. In an air conditioning system, pipes marked with letters “CHW” indicates that the pipe is used to transport chilled water.
4. The electrical voltage for single phase power in Hong Kong is 220 volts.
5. For 1 kW electric apparatus working for one hour, it will consume 1 unit of electricity.
6. 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.
7. The condensation (dripping) on chilled water pipes is because of the direct contact of the water pipe with moisture in the air.
8. In air conditioning system, pipes/ducts marked with letters “FAD” indicates that the pipe is used to transport fresh air.
9. Fresh air or exhaust duct is not necessary to provide insulation treatment.
10. To conduct insulation treatment for horizontally installed water pipe, the longitudinal joint of the insulation duct should be placed horizontally.
11. When boiling asphalt, there should not be water nearby as hot asphalt will splash upon meeting with water.
12. For metal pins used for fiberglass insulation installation, the distances between the nail pins and the edge should not exceed 100mm.
13. For safety reasons, power tools used for construction sites should be AC 110V power.

14. The blade teeth should face forward when installing blade on bow saw.
15. For content of thermal insulation materials, it is mandatory requirement to be free of asbestos.
16. Pins adhesive could be replaced by special glue as a construction adhesive.
17. Poor housekeeping of workplace will mostly be prone to happen of tripping and slipping accident.
18. When applying insulation treatment for water pipe with 90° try square, the tolerance of joints of insulation should be not greater than 5mm.
19. When conducting insulation treatment by glass wool, one must wear a mask.
20. The Mandatory Basic Safety Training Course for Construction Industry (Green Card) will last for one day or two evenings.

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