

# Drainlayer

## Intermediate Trade Test

### Study Material for Written Test

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## 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)

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## Study Material for Written Test

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

1. In general, tools used for pipes installation is hand pulley block.
2. Generally speaking, stepped channel usually installed in slope construction.
3. The general function of stormwater manhole is to collect rainwater from roadside.
4. Manholes should be provided at location where the stormwater/sewer drain changes direction.
5. In construction plan for pipes, the label "I.L." stand for invert level of the pipe. It is the level taken from the bottom of the inside of the pipe.
6. For manhole construction, the function of pouring a layer of concrete, i.e. blinding layer, at a designated level after excavation is for setting out from the bedding as a reference during construction work.
7. Pipe flow gradient means the gradient of the pipe during pipe installation.
8. Surface channel is generally a U-shaped channel which collect water along roadside and drain into manhole.
9. For trench excavation, the excavation depth that required to provide trench support, i.e. temporary shoring system, is 1.2m.
10. In building works, the surface grid patterns for sewer (foul drain) manhole cover is square pattern.
11. In general, as specified by Drainage Services Department (DSD) for manhole construction, the access opening for man should not be smaller than 675mm by 675mm.
12. Before pipe installation, concrete pipes should be check including pipe size meets required standard and any defects, such as any cracks.
13. During pipe installation, webbing sling which complied safety requirements should be used to lift concrete pipes.

14. If a layer of hard rock was found during pipe laying, one should follow the instructions given by the engineer and conduct the construction works according to the plan.
15. If concrete surround the pipe is required, joint filler should be provided in the concrete bedding at pipe joints location.
16. The purpose of using a test ball to exam the pipe is to test the gradient of the pipe and check whether there are any obstacles inside the pipe.
17. When cutting concrete pipes, tools including portable cutting machines, hammers and chisels are generally used.
18. Workers should not wear a pair of cotton gloves when operating a machine with revolving parts since cotton gloves may be entangles in the revolving parts.
19. In case of any corruption/act of bribery happen in construction industry, it will cause decline in work quality.
20. Voluntary service is not a common corruption trap in the construction industry.

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