



CONSTRUCTION
INDUSTRY COUNCIL
建造業議會

Hand-dug Caisson Worker Skilled Trade Test Mock Practical Test Paper

此文件關於手挖沉箱工工藝測試考題。如有需要索取此文件的中文版本，請致電 2100 9232 與工藝測試中心聯絡。

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Enquiries

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Trade Test Paper

Trade : Hand-dug Caisson Worker

Skill Level : Skilled Worker

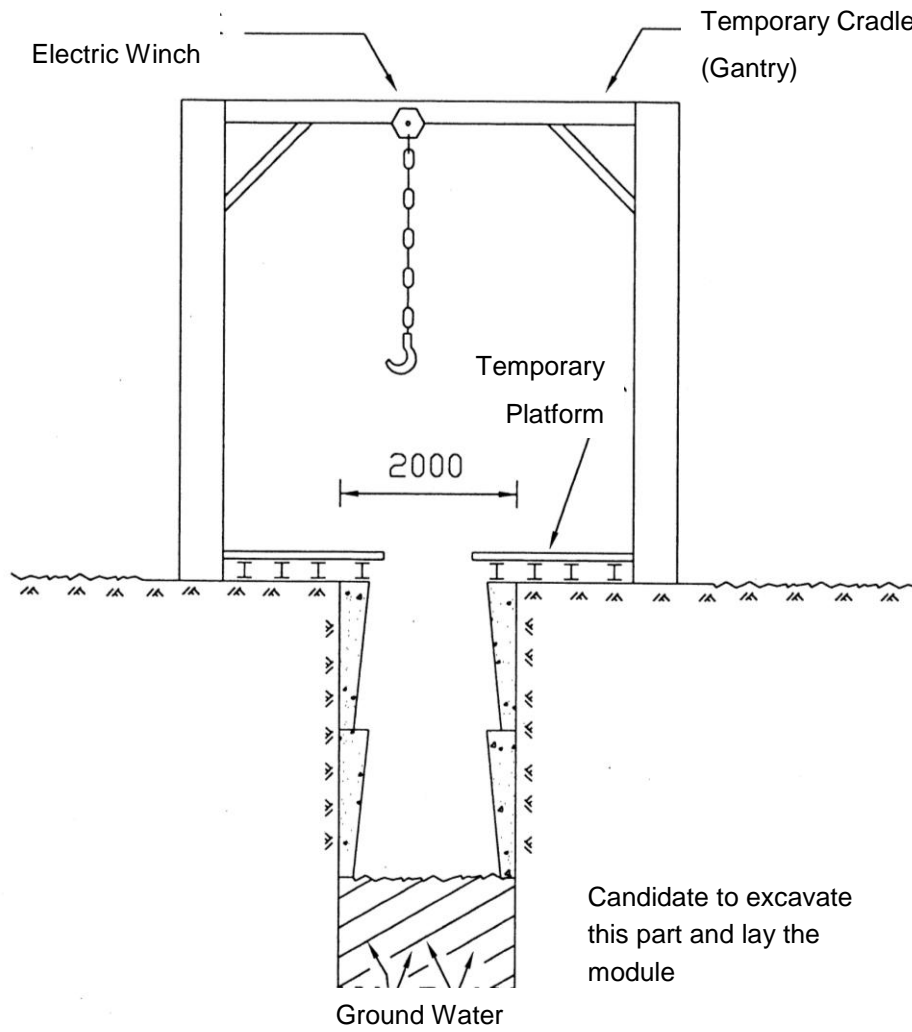
Question : Complete the following items at the specified location according to the drawings:

- (1) Use hand tools to dig a caisson, including: (40 marks)
- (i) Select appropriate personal safety equipment at the test venue according to the need of the work;
 - (ii) Check safety equipment before entering the caisson;
 - (iii) Use hand tools to excavate (Drawing 1) to the indicated depth and appropriately use the water pump to pump away the permeating ground water;
 - (iv) Accurately erect/calibrate circular metal modules according to the job lines provided;
- (2) Operate pneumatic drilling tools to dig the caisson, including: (40 marks)
- (i) Select appropriate personal safety equipment at the test venue according to the need of the work;
 - (ii) Refer to requirements (Drawing 2), operate pneumatic drilling tools to remove the loose stones with “stone cutting” method in the simulated caisson;
- (3) Cast concrete in the caisson ring (沉箱環), including: (20 marks)
- (i) Use the ready-mixed concrete;
 - (ii) Correct procedure in casting concrete in the caisson circular module;
 - (iii) Conduct ramming; and
 - (iv) Clean up tools and venue etc. after completion.

Test Time : 6 hours (not including lunch hour)

- Notes:
- (1) The candidate must read the “Notes to Candidates” in the Annex before starting;
 - (2) If the candidate did not complete safety measures during the test, he/she will be deemed to have failed the test; and
 - (3) There are 3 pages in the question. All test items will have a full mark of 100 and 60 marks or above will be considered as pass.

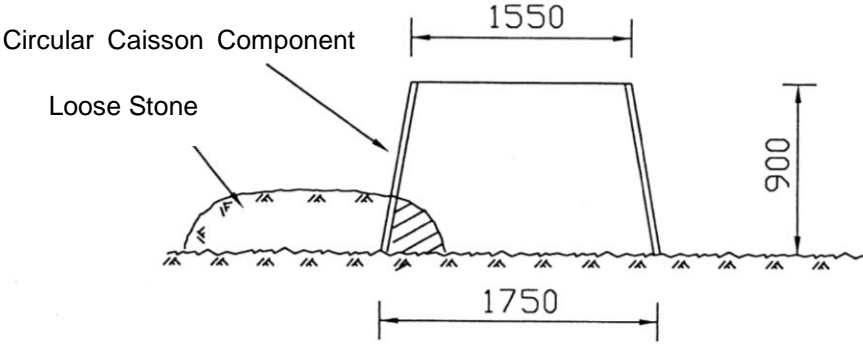
Hand-dug Caisson Worker Shop Drawing 1



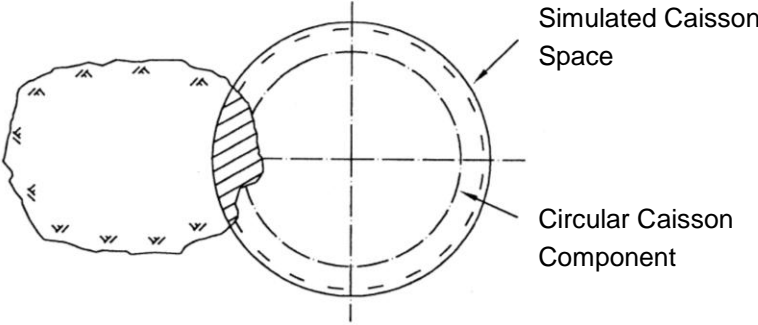
Front Cross-Section

Drawing not in proportion
Measurements in mm

Hand-dug Caisson Worker Shop Drawing 2



Elevation



Plan

Drawing not in proportion
Measurements in mm

Notes to Candidates :

1. Candidates should read the test papers carefully and ask the invigilator for any queries.
2. Candidates should study the drawings and specifications attached to test papers, if any, before the test begins.
3. Candidates should carry out the test according to test papers, working drawings and specifications provided.
4. Candidates shall bring their own safety shoes, other safety equipment will be provided by trade testing centre. Candidates must take all necessary safety precautions to ensure work safety.
5. All tools and materials required by the test will be provided by trade testing centre, candidates should check and ensure their adequacy and quality. Candidates shall use the tools and materials properly based on trade practice. All the tools must be returned to trade testing centre after the test. The candidates may ask the invigilator for any problems.
6. Candidates are required to handle and move the tools and materials for use in the test, and to carry out associated works.
7. Invigilator will take record photos periodically during the test.
8. Candidates are not allowed to take any photo or video with cameras or mobile phones.
9. Candidates are not allowed to use their mobile phones during the trade tests, except for emergency situation.
10. The marking scheme is based on the following criteria :

- a) Understanding of drawing and specification
- b) Preparation works before commencement of test
- c) Working procedures
- d) Accuracy and quality of works
- e) Progress of works
- f) Proper handling and use of materials
- g) Proper use of tools and equipment
- h) Safety precautions
- i) Considerate of other trades
- h) Housekeeping after completion of test

- 11. All candidates must stop when time is up.
- 12. Candidates are required to return the test paper to invigilator after the test.
- 13. Offering bribe to invigilator is an offence in law and trade testing centre will report to the ICAC for any such case.

In the event that the candidate fails to take any necessary safety precautions and / or works in any dangerous situations, he / she will be assessed failed