



CONSTRUCTION  
INDUSTRY COUNCIL  
建造業議會

# **Metal Scaffolder Trade Test Mock Practical Test Paper**

此文件關於金屬棚架工工藝測試考題。如有需要索取此文件的中文版本，請致電 2100 9000 與香港建造業工藝測試中心聯絡。

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## **Enquiries**

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## Trade Test Paper

Trade : Metal Scaffolding

Grade : Craftsman

Test Contents : Complete the following items at the designated location:

1. Dismantle a metal scaffolding and associated structure (approximately 3.2M x 2.1M x 2.75M) in a safe manner (to ensure the stability of the scaffolding at all time) as follows:- 20 marks
  - i) Inspect / repair if necessary before dismantling works
  - ii) Dismantle the scaffolding
  - iii) Stack up properly the dismantled materials
  - iv) Tidy up job site
  
2. Erect the following structure of a metal scaffolding (approximately 3.2M x 2.1M x 2.75M) according to the given drawings:- 80 marks
  - i) an independent tied scaffold
  - ii) a flight of staircase
  - iii) a working platform

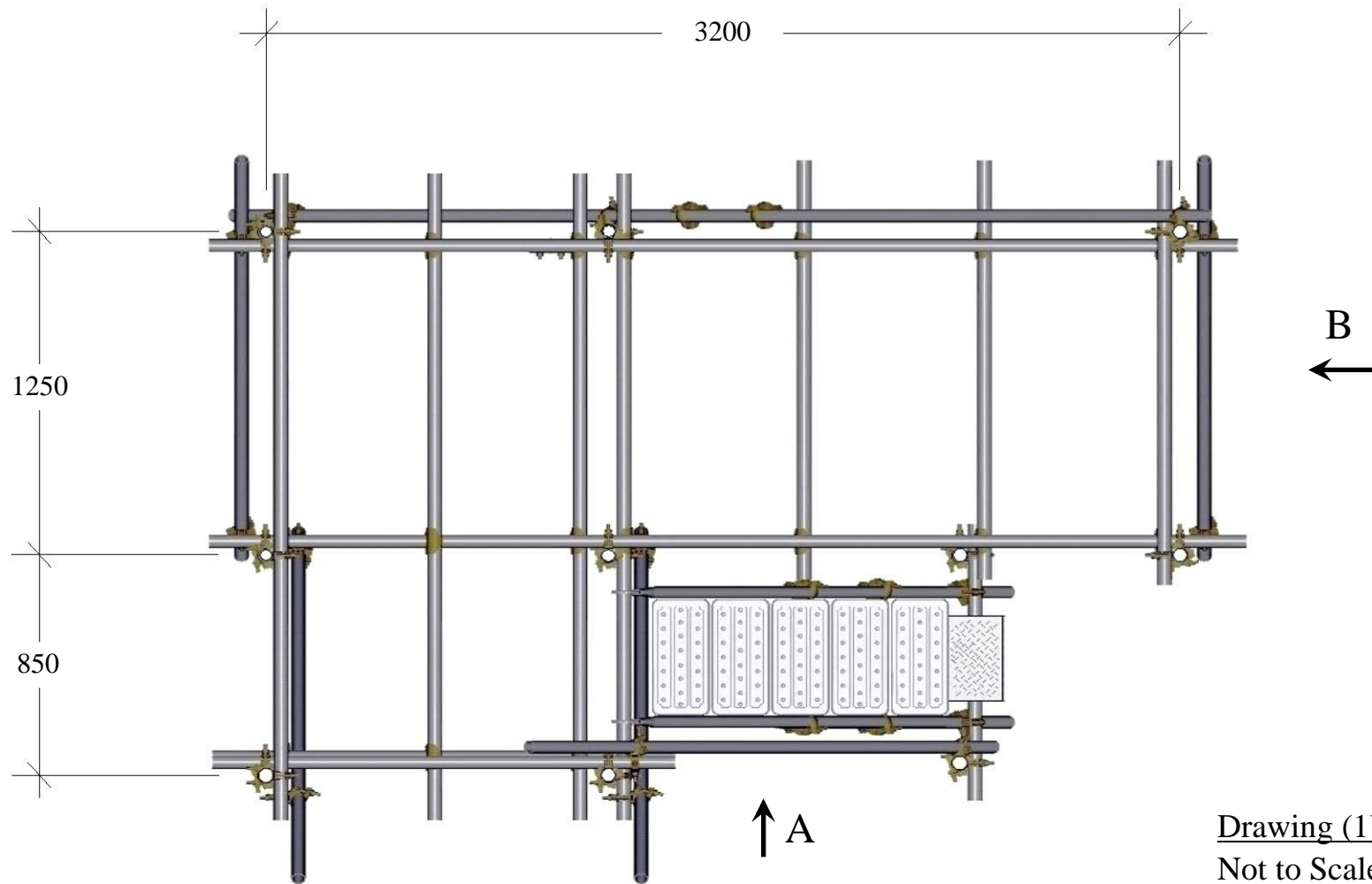
Note : (1) Item 1 must be completed before item 2.

(2) Candidate should not drop any tools / tubes / fittings when working on scaffolding.

Duration : 6 hours (excluding lunch time)

- Notes : (1) Candidate will be marked as fail if he does not carry out safety precautions during the test;
- (2) The test paper consists of 8 pages. Total score is 100. Passing mark is 60.

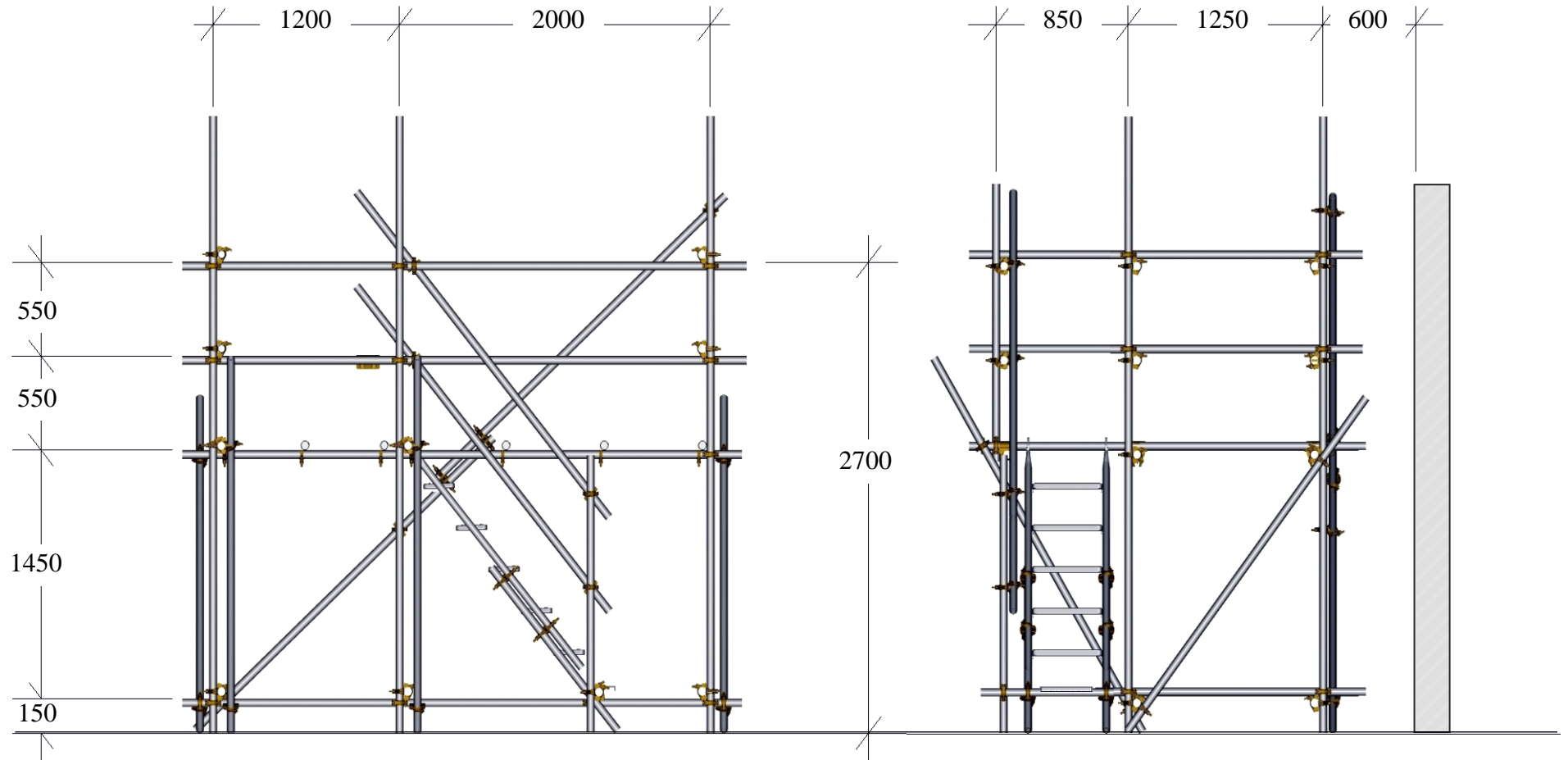
# Trade Test for Metal Scaffolder



PLAN

Drawing (1)  
Not to Scale  
All dimensions in mm.  
(version 1)

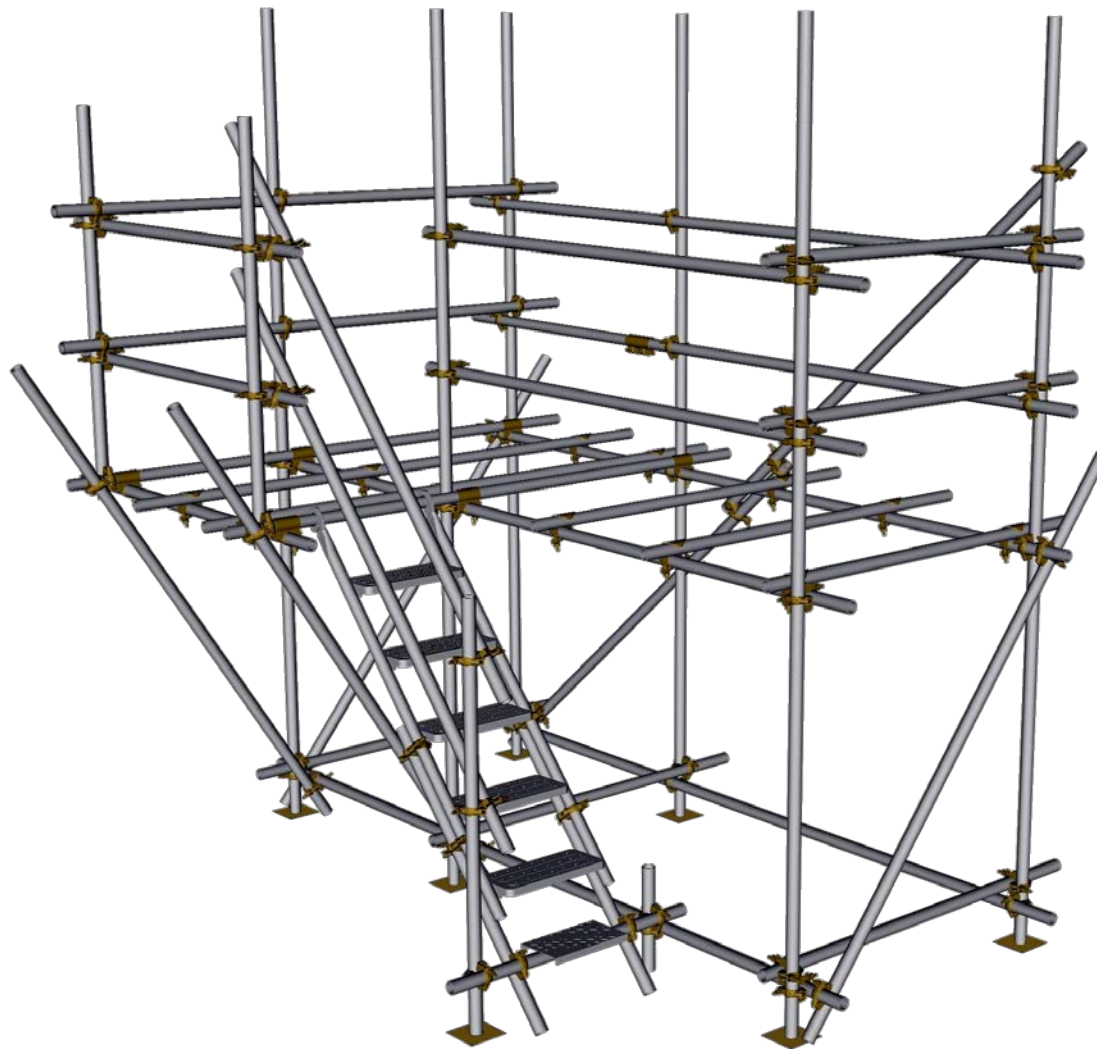
# Trade Test for Metal Scaffolder



View A

View B

Drawing (2)  
Not to Scale  
All dimensions in mm.  
(version 1)



Drawing (3)  
Not to Scale

### **Notes to Candidate (Part 1):**

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 the test paper, 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
- j. House keeping 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**

## Notes to Candidates (Part 2) :

1. Every candidate is required to wear a safety belt / harness, together with suitable lanyard, attaching to an independent life line or secure anchorage and fittings, or a secure fixing point at all the time when working at height.
2. Candidate will fail if he/she conducts the test without safety precautions.
3. Erection tolerances :-
  - (i) Standards should be vertical to within +/- 20 mm in 2 m.
  - (ii) Bay length, width and lift height should be +/- 25 mm on designated dimensions, and level to within +/- 20mm in 2m.
  - (iii) Stair steps should be level to a max. deviation of 10 mm, step height should be referring to the prefabricated staircase.
  - (iv) The width of working platform should be +25mm
4. The working platform should be closely planked, and overhanged between 50mm - 150mm.
5. Toeboard should be fixed suitably.
6. Standards should be placed on a base plate.
7. All components should be fixed with correct couplers / fittings.
8. One of the standards, ledgers and braces should be joined together with expanding joint pin, sleeve coupler, and be used in overlapping conditions.