



CONSTRUCTION
INDUSTRY COUNCIL
建造業議會

Refrigeration/ Air- conditioning/ Ventilation Mechanic (Air System) Trade Test Mock Practical Test Paper

此文件關於空調製冷設備技工（送風系統）技能測試考題。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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Test Paper for Trade Test

Job Title : Refrigeration /Air-conditioning /Ventilation Mechanic (Air System)

Skill Level : Skilled worker

Test : Complete the following practical tasks at the specified locations:
(please refer to the work drawings)

1. According to the prevailing regulations, find the appropriate fire damper for the test question among various types and standards of products in the exam venue, and install the fire dampers following the locations and heights specified in the test drawing;
2. According to the locations and heights specified in the test drawing, screw shaft and bracket to hoist the air duct from above, which include:
 - a. Rectangular straight air duct and fire damper – connect with German flange
 - b. Rectangular straight air grille and reducer
 - c. Reducing socket and round square socket – connect with C-shaped seam
 - d. Connect a long round spiral duct straight
3. According to the locations required in the test drawing, make a hole on the long round spiral duct in order to connect a Ø300mm round transition pipefitting;
4. According to the requirement of the test drawing, produce a Ø300mm round transition pipe fitting;
5. Connect the round transition pipefitting and the long round spiral duct;
6. Cut a soft pipe of appropriate length with a suitable method, and use the round flange to connect the round transition pipefitting and round square socket ;
7. Check the functionality of installed fire damper;

8. Smoke leak hunting.

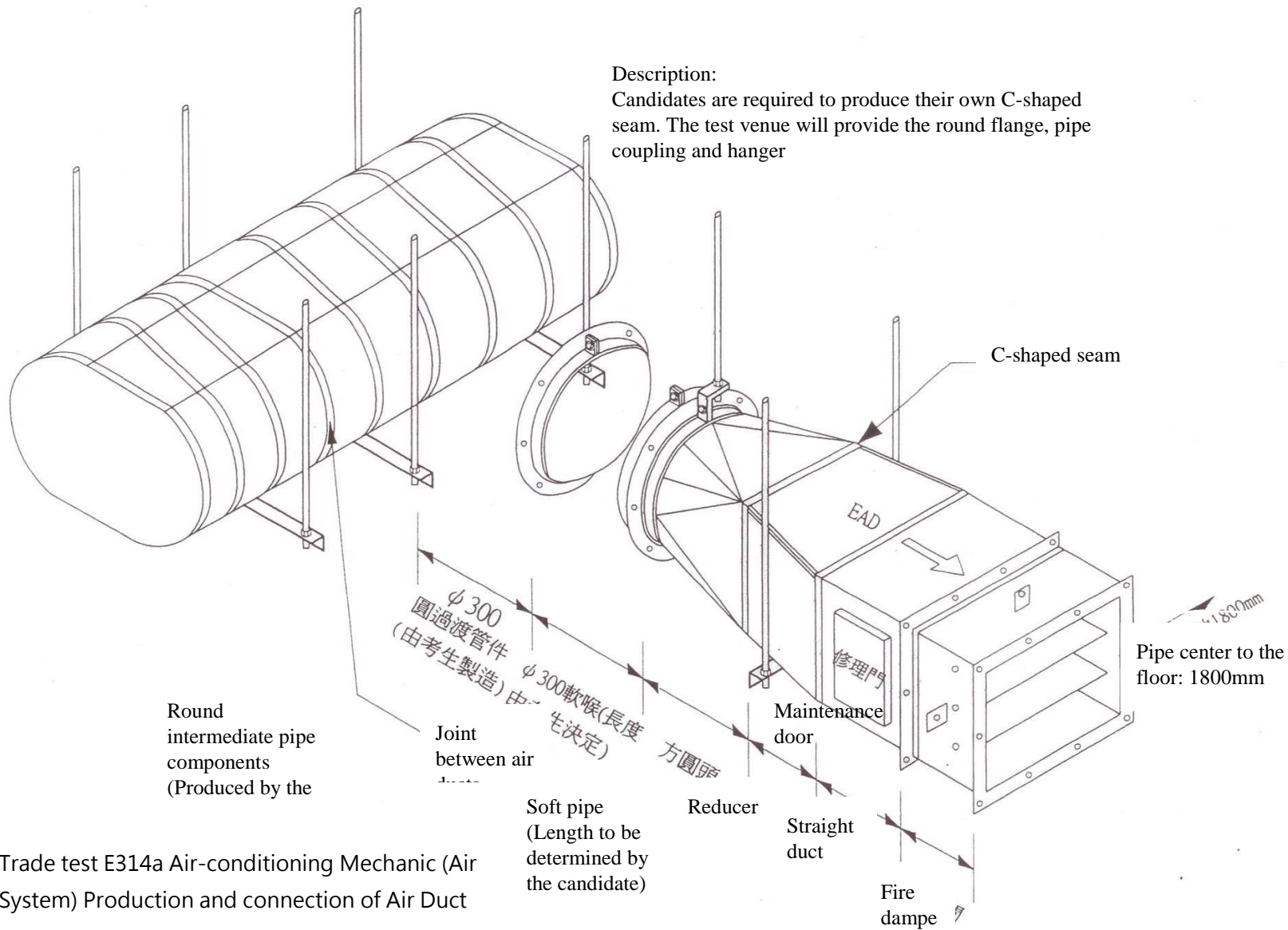
Noted: C-shaped seam should be produced by the candidates, while the exam venue will provide the round flange.

Full score of this test is 100. Candidates must score not less than 60 marks to pass this practical test.

Time Limit : 3.5 hours

Points to note :

- (1) Before you start, read all instructions for candidates below and test paper carefully. If you have any questions, ask an invigilator immediately.
- (2) You will fail the test if you do not take proper safety measures during the test.
- (3) After the test, clean up the venue and restore its original condition as instructed by the invigilators.



CLIENT CONSTRUCTION INDUSTRY COUNCIL TRAINING ACADEMY	PROJECT TRADE TEST CENTRE AT 7-11, KWAI HOP STREET, KWAI CHUNG, NEW TERRITORIES.	DRAWING TITLE 空調製冷設備(送風系統)考生製作立體圖	DRAWN BY	CHECKED BY	SCALE NOT TO SCALE
			DATE 09-09-2009	DATE	DRAWING NO. KCC-S-009

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
 - j) 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