



CONSTRUCTION
INDUSTRY COUNCIL
建造業議會

Refrigeration/ Air- conditioning/ Ventilation Mechanic (Thermal Insulation) Intermediate Trade Test Mock Practical Test Paper

此文件關於空調製冷設備技工（保溫）中級工藝測試考題。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。

Disclaimer

No part of this material may be reproduced or transmitted in any form or any means without the written permission of the CIC. Whilst reasonable efforts have been made to ensure the accuracy of the information contained in this material, the CIC nevertheless would encourage readers to seek appropriate independent advice from their professional advisers where possible and readers should not treat or rely on this material as a substitute for such professional advice for taking any relevant actions.

Enquiries

Enquiries on this Material may be made to the Hong Kong Construction Industry Trade Testing Centre at:

95, Yue Kwong Road
Aberdeen
Hong Kong

Tel: (852) 2100 9000
Fax: (852) 2100 9090
Email: enquiry@cic.hk
Website: www.cic.hk

© 2021 Construction Industry Council.

Test Paper for Intermediate Trade Test

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

Skill Level : Medium-skilled worker

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

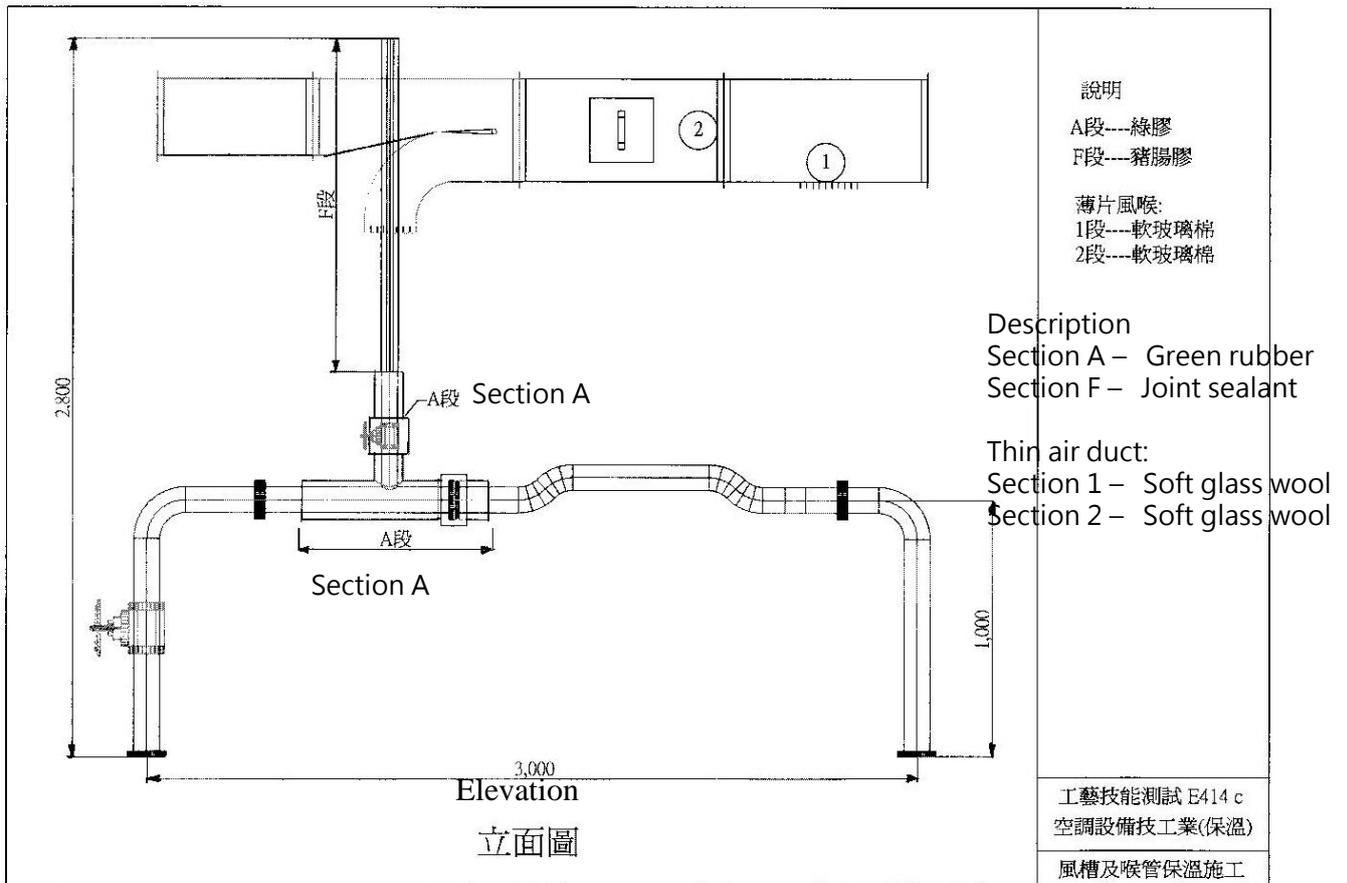
1. Pick the correct bonding agent to fix a glass wool metal nail;
2. Use soft glass wool to complete a thermal insulation of two segments of straight rectangular ventilation slot and air grille;
3. Use leak-proof rubber to seal the air duct inspection door airtight;
4. Use green sealant thermal insulating pipe materials to complete a thermal insulation of straight chilled water pipes; (Section A in drawing)
5. Use joint sealant to complete a thermal insulation of a straight refrigerant pipe; (Section F in drawing)
6. Upon completion, clean up the venue.

Time Limit : Three 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.
- (4) Each test has a full score of 100. Candidates must score 60 marks or above to pass.

Work drawing



Trade Test E414 c

Air-conditioning / Ventilation
 Mechanic (Thermal
 Insulation)

Construction of thermal
 insulating ventilation slots
 and pipes

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