

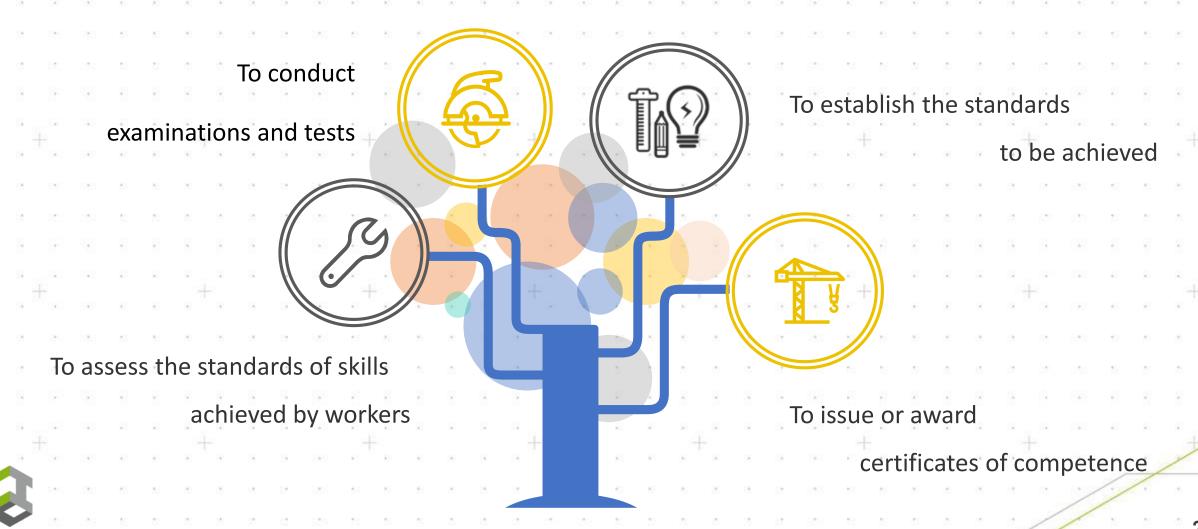
### **Agenda**

- 1. Introduction of Trade Testing
- 2. Application Requirements of Trade Test
- 3. Trade Test Procedures
- 4. Content of Intermediate Trade Test for Metal Scaffolder
  - 1) Written Test Content
  - 2) Practical Test Content
  - 3) Trade Testing Workshop and Mock-up
  - 4) Major Equipment & Tools, Safety Tools and Materials List
  - 5) Common Mistakes
- 5. Candidate Resources



6. Q&A Session

### 1. Introduction of Trade Testing - Purposes



### 1. Introduction of Trade Test - Categories of **Trade Tests and Nos. of Candidates**



#### **Civil and Building Construction Trade Test**

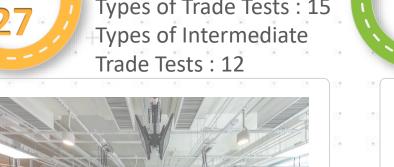
Types of Trade Tests: 76 Types of Intermediate

Trade Tests: 47



#### **Construction-related Electrical and Mechanica Trade Tests**

Types of Trade Tests: 15





#### **Certification Tests for Machineries and Cranes Operation**

Construction Crane Operators (Gondola) Operator of Builder's Lift









### 2. Application Requirements of Trade Test

- 1. Hong Kong Residents
- 2. Holding Valid Safety Card
- Fulfil work experience requirement
   / recognised bridging course for
   trade test

#### **Work Experience in Hong Kong**

• At least **2 years'** relevant work experience

#### **Documentary Proof(s) of Work Experience:**

- Documentary Proof from Employers; and/or
- Declaration or Oath/ Affirmation made at one of the Home Affairs Enquiry Centres; and/or
- Specified Form signed by the Chairman/ Vice-chairman of one of the recognised labour unions

- 1. Hong Kong Residents
- 2. Holding Valid Safety Card
- Fulfil work experience requirement / recognised bridging course for trade test

Recognised bridging course for trade test
2 Trade Test
Opportunities
for each Course

#### **Work Experience in Hong Kong**

- At least 4 years' relevant work experience; or
- Possessing corresponding ITT qualification + at least 2 years' relevant work experience

#### **Documentary Proof(s) of Work Experience:**

- Documentary Proof from Employers; and/or
- Declaration or Oath/ Affirmation made at one of the Home Affairs Enquiry Centres

(Documentary proof issued by recognised labour unions is NOT accepted for TT application)



ITT



#### 3. Trade Test Procedures

#### **Key Points to Note**







自備安全鞋



Arrival Time for Registration on L5e Service Centre 到達L5e服務中心登記時間

**Appropriate Work wear** 





Test Day







#### Arrival at HKCITTC

 If you are being tested at the HKCITTC in Aberdeen, after you obtain an access pass through security on ground floor, you must report to 5th floor, the Trade Testing Service Centre with Notification for Trade Testing Commencement and change into your workwear

You are welcome to use our lunch pre-ordering service for easy lunch arrangements



- . You must arrive at the test venue 15 minutes before the test starts
- The test starts at 8:30cm. Candidates who are late will not be allowed to enter the test venue. They will be regarded as 'absent' and absentees are required to re-submit a new



#### Verification of Candidates' Information

- Present the original of the document required
- A portrait photo of each candidate will be taken







Afternoon Session (if applicable)



Practical Test = Morning Session (if applicable)



Practical Test Briefing and Equipment, Tools and Materials Check



Warm-up



**Written Test** 



 You may leave the test venue after completing a survey

#### Post-test **Procedure**



#### Notice of test result

· Candidates who fail the Practical Test will receive a demerit report

X Fail



#### Apply for a re-sit\*

Certificate Collection Practice

- . Go to the HKCIITC to collect the certificate in person or
- mail with delivery advice provided by the Hong Kong. Post Office

\* For re-sit details,





### 4. 金屬棚架中級工藝測試(中工) Intermediate Trade Test for Metal Scaffolder



筆試 Written Test 限時30分鐘 Time Limit 30 Minutes





4.1 筆試內容 Written Test Content

### 筆試 Written Test

測試限時 30分鐘

**Time Limit** 30 Minutes

測試內容 10條選擇題

**Test Content** 10 Multiple Choice Questions

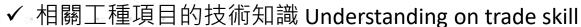
Passing Answer 6 (or above) questions correctly will

**Requirement** be awarded a "pass"

### 筆試範疇

Scope of Written

**Test** 



- ✓ 相關工具及器械的應用知識
  Application knowledge of relevant tools and equipment
- ✓ 建造安全知識 Safety knowledge
- ✓ 工種相關的法例及行為守則 Industry practice and code of conducts
- ✓ 職業道德 Ethics



## 4.1 筆試內容參考資料 Written Test Reference Material



HONG KONG CONSTRUCTION INDUSTRY TRADE TESTING CENTRE 香港建造業工藝測試中心

金属棚架工中級工藝測試(中工) 技術知識測試(質試)大容為差質科

#### 金屬棚架工中級工藝測試(中工)

#### 技術知識測試 (筆試)內容參考資料

#### 準備筆試參考內容

本資料的以下內容均只作準備中工技術知識測試(筆試)的參考用途:

- 1. 根據英國標准規格,全屬鄉架所用經濟的外直經是483毫米。
- 2 大横杆的水平總偏差不可多於 50 毫米。
- 3 直杆的垂直線偏差不可多於50毫米
- 4. 棚架內的上落通道,兩個連續着地點之間的垂直距離不應超過 9 米。
- 5. 連續器之間的上下距離,不應超過8.5米。
- 6 以重異法連接到杆,重異具度是小須有300毫米
- 7. 工作台的平面斜杆應搭設在大横杆下
- 塔式通架的高度如超過與底邊長度規定比率時,須使用連牆器。連牆器應每隔6米高便要裝置。
- 坡度超過 1:10 便應檢查地基以確保棚架的穩定性
- 10 序掌的作用早防止有杆下陷
- 1. 有杆不垂有會影響棚架的載重力度
- 12 搭建审利多统脚架,須依照生產商的培示主题嵌名頂组件。
- 13. 鋪掛在棚架上的尼龍網應具阴燃特性
- 14 棚架上工作台所鋪設的木板,厚度最少為 25 毫米
- 15. 「表格五」須由合資格的人填寫
- 16 使用细索/喊帥)埋碼吊運緞補,一般應用2條細索
- 17. 根據《防止賄賂條例》、「利益」的定義包括禮物、借貸和服務
- 18. 雷暴大氣情況下於室外搭或拆金屬棚架的風險最高
- 19. 存放金屬棚架組件時,管料須妥善地堆放及綑扎,以防通管滾動,產生危機

#### 注意事

李莫特的所有内容均只许等模则就的参考根据,也不需量全部则成内容,提考或考生更多模糊摄的正式制造文件。 这内容能有不同版本,内容包括但不限於工具。物料、股情、重制、能工能的或程序及不同的模型上地模模等的差 其他心脉深闪射结构的下下分别对文性和语,"太智能内容的有任何功能、更新式制法、提展不会之行得明。

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English Version of
Written Test Reference Materials
will be available soon!



### 4.2 實務試內容 Practical Test Content

#### **Points to Note:**

- 1. The candidate must read the "Notes to Candidates" in the Annex before starting;
- 2. Candidates must fulfill the following requirements to be awarded a pass in the test:
  - Get a Pass in the Skill Assessment Part (get 60 marks or above out of 100 marks, and without serious technical defects); and
  - ii. Get a Pass in the Safety Assessment Part (get 6 marks or above out of 10 marks); and
  - iii. Complete the test within the time limit.
- 3. Full mark of the test is 100 marks. The passing mark is 60 marks.

施工章程 **Understanding** of drawing and 完工後的 specification 清理工作 Housekeeping after completion of test 實務試 評核範疇 **Practical Test** 執行安全措施 Assessment Safety precautions Criteria 下確使用 工具及設備 Proper use of tools

and equipment

理解圖則及

施工前的

準備工作

## 4.2 實務試內容(續 **Practical Test Content (Continued)**

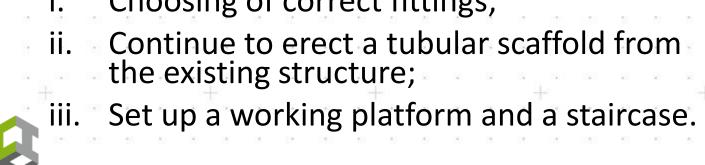
**Duration:** 3 hours

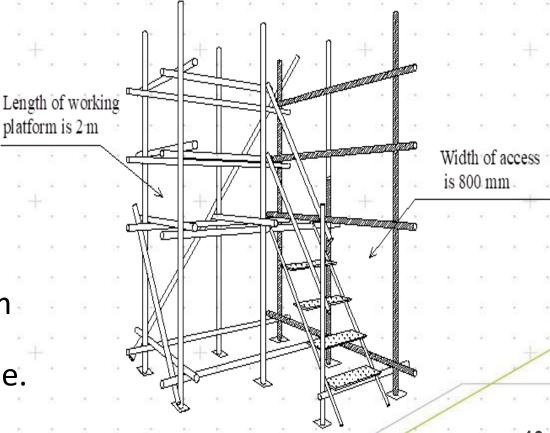
#### **Test Content:**

Complete the following items at designated location

Continue to erect a tubular scaffolding : (approximately  $2.0m \times 0.85m \times 2.5m$ )

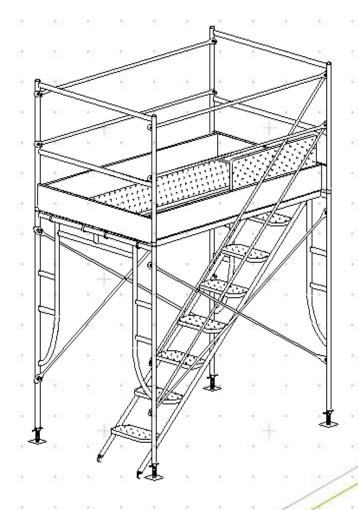
Choosing of correct fittings;





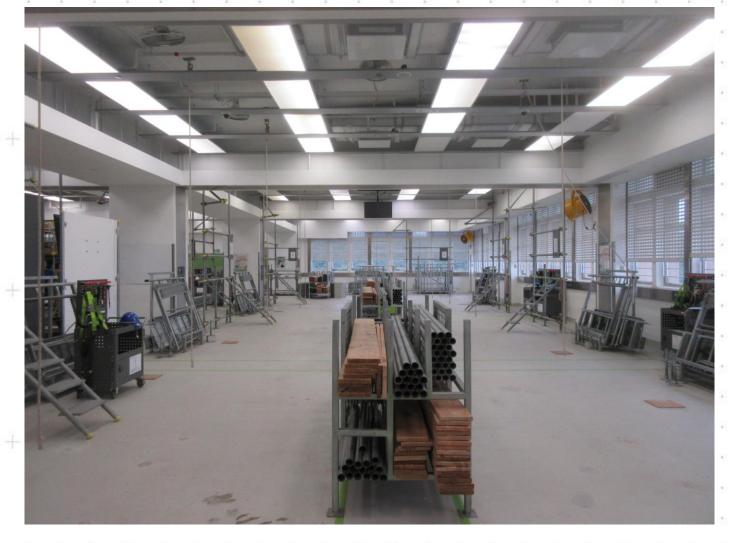
## 4.2 實務試內容(續) Practical Test Content (Continued)

- 2) Assemble of a plane frame scaffold:
- i. Choosing of suitable plan frame and fittings;
- ii. Set up a plan frame scaffold;
- iii. Adjust the scaffold to level.
- 3) Lift up materials:
- i. Install lifting equipment;
- ii. Tying to lift up tubes and bucket.





# 4.3 測試工場 Trade Testing Workshop





# 4.3 測試工場(續) Trade Testing Workshop (Continued)







# 4.3 測試工場 (續) Trade Testing Workshop (Continued)







圖片只供參考 The photos are for reference only.

# 4.3 成品樣板 Mock-up





# 4.3 成品樣板(續) Mock-up (Continued)







# 4.4 主要設備工具表 Major Equipment and Tools List

	序號 Item	名稱 Name	圖片 Photo	序號 Item	名稱 Name	圖片 Photo
	1	尖尾卜 Ratchet wrench		2	21#扳手 Combination spanner	TORRES STOR.
	3	平水尺 230mm 230mm Spirit Level		4	平水尺 600mm 600mm Spirit Level	CONTROL NAME OF STREET OF
1	5	勞工手套 Cotton gloves		6	5米拉尺 5m Measuring Tape	5.0m



# 4.4 主要設備工具表(續) The photos are for reference of the photos are for the photos are for reference of the photos are for the photos are for

	序號	名稱	圖片	序號	名稱	圖片
	Item	Name	Photo	Item	Name	Photo
7	7	工具袋及腰帶 Tool pocket with belt		8	石筆 Slate pencil	



4.4 主要安全用品列表 Major Safety Tools List

125	序號 Item	名稱 Name	圖片 Photo	序號 Item	名稱 Name	圖片 Photo
Same of the same o	1	全身式安全帶 Full body safety harness	SU	2	安全繋繩 Lanyard	
	3	防墮扣 Fall arrester		4	安全帽及 Y型帽帶 Safety helmet with chinstrap	



## 4.4 主要物料表 Major Materials List

18	序號 Item	名稱 Name	圖片 Photo	序號 Item	名稱 Name	圖片 Photo
	1	直角扣 Double coupler		2	活動扣 Swivel coupler	
	3	內駁芯扣 Expanding joint pin		4	套筒 Sleeve coupler	
	5	底座 Base plate.		6	踢腳板扣 Toe-board clamp	



# 4.4 主要物料表(續)

**Major Materials List (Continued)** 

18	序號 Item	名稱 Name	圖片 Photo	序號 Item	名稱 Name	圖片 Photo
	7	踢腳板套 Toe-board guard		8	板料: Wooden plank: 1) 2.4M 2) 1.5M 3) 1.1M	
	9	4mm厚鋼通管: Tube: 1) 2.8M 2) 2.4M 3) 1.5M 4) 1.2M		10	門架配件 Plane frame scaffold accessories	
	11	門架配件 Plane frame scaffold accessories				



## 4.5 常犯錯誤 Common Mistakes

立杆倒冧

Standard collapsed



經驗不足

Lack of practical experience

工藝生疏

Poor skil





# 4.5 常犯錯誤(續) Common Mistakes (Continued)

門架倒冧

Plan frame collapsed

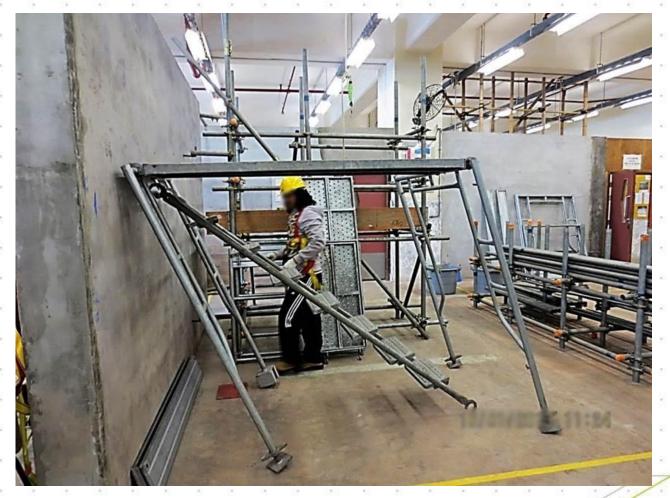


經驗不足

Lack of practical experience

工藝生疏

Poor skill





# 4.5 常犯錯誤(續) Common Mistakes (Continued)

棚上墮物

Objects falling off from scaffold



跌平水尺

Dropped of spirit level





圖片只供參考 The photos are for reference only.

# 4.5 常犯錯誤(續) Common Mistakes (Continued)

不合規格
Non-compliance with
the standard



欠底掌

Base plate omitted





4.5 常犯錯誤 ( 續 ) Common Mistakes (Continued)

不合規格
Non-compliance with
the standard



錯底掌

Wrong base plate





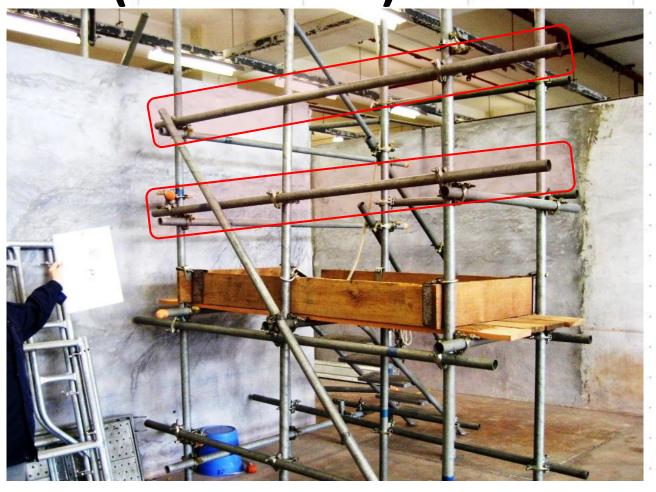
## 4.5 常犯錯誤(續) Common Mistakes (Continued)

不合規格
Non-compliance with
the standard



構件錯位

Faults in component connections





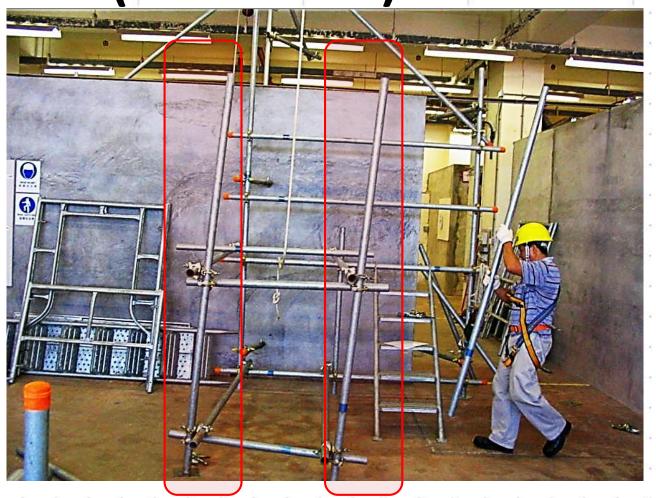
4.5 常犯錯誤 (續) Common Mistakes (Continued)

不合規格
Non-compliance with
the standard



直杆不垂直

Standards not plumb





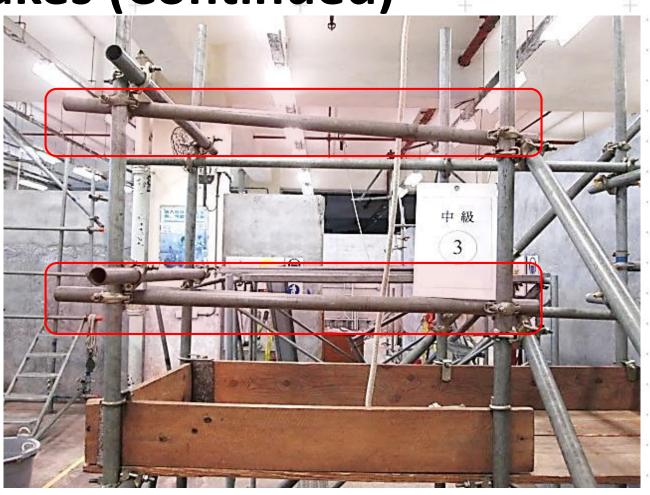
4.5 常犯錯誤(續) Common Mistakes (Continued)

不合規格
Non-compliance with
the standard



横杆不平

Ledgers not horizonta





# 4.5 常犯錯誤 ( 續 ) Common Mistakes (Continued)

造型出錯 Wrong layout



組合佈置與圖則不符

Work done not complied with drawing/requirements





# 4.5 常犯錯誤(續) Common Mistakes (Continued)

未能完成 Incompletion



經驗不足

Lack of practical experience

工藝生疏

Poor skill





### 5. Candidate Resources

**Quick & Easy** 

# Trade Test Application





**before Test** 



TTOA Mobile APP





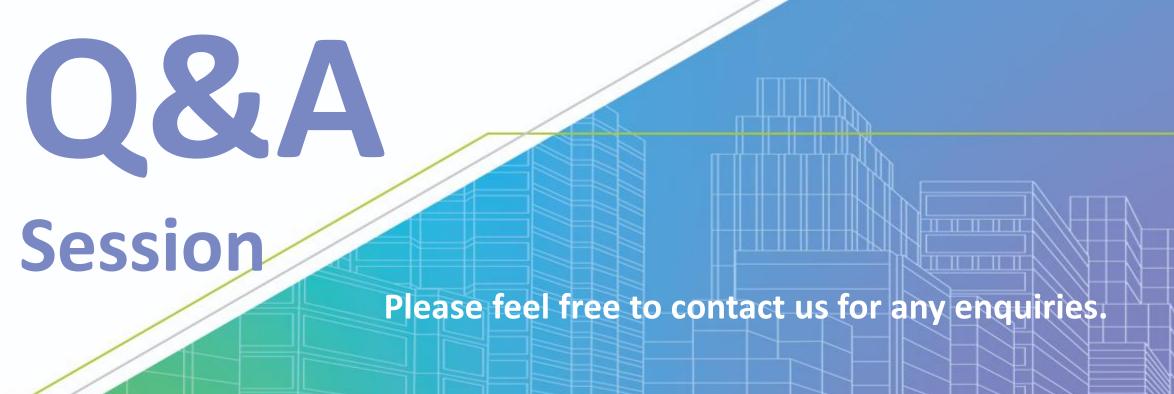
**Trade Test Tips** 



#### **Trade Test Information**

- ✓ Code of Conduct and Dress
  Code for Candidates
  - ✓ Location Map and Transportation Guide





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