

Trade Test Seminar

Intermediate Trade Test for Carpenter (Formwork - Civil Construction)

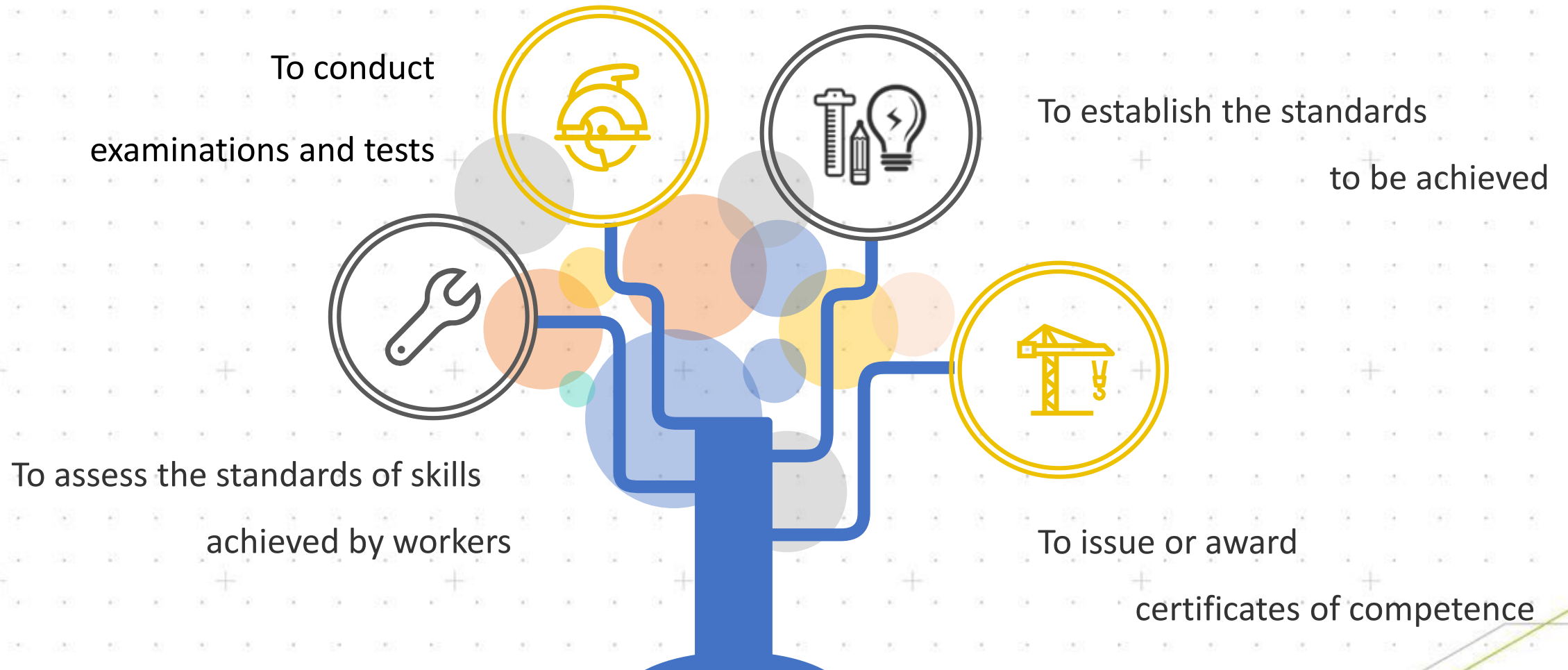
Chau Kam Po - Supervising Instructor
HKCITTC
2020/10/18

Agenda

1. Introduction of Trade Testing
2. Application Requirements of Trade Test
3. Trade Test Procedures
4. Content of Intermediate Trade Test for Carpenter (Formwork - Civil Construction)
 - 1) Written Test Content
 - 2) Practical Test Content
 - 3) Trade Testing Workshop and Mock-up
 - 4) Major Equipment & Tools and Safety Tools 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 Mechanical Trade Tests
Types of Trade Tests : 15
Types of Intermediate Trade Tests : 12



Certification Tests for Machineries and Cranes Operation
Construction Crane Operators (Gondola)
Operator of Builder's Lift



Total Nos. of **Candidates** in 2019 * **20,915**

*Including Civil and Building Construction Trade Test, Construction-related Electrical and Mechanical Trade Tests and Certification Tests for Machineries and Cranes Operation (Gondola and Builder's Lift)

2. Application Requirements of Trade Test



Recognised bridging course for trade test

2 Trade Test Opportunities for each Course

ITT



1. Hong Kong Residents
2. Holding Valid Safety Card
3. 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

TT

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

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)

* NOT applicable to Certification Tests for Machineries and Crane Operation

3. Trade Test Procedures

Key Points to Note



Present valid Green Card
攜帶有效平安卡



Bring your own Safety Shoes
自備安全鞋

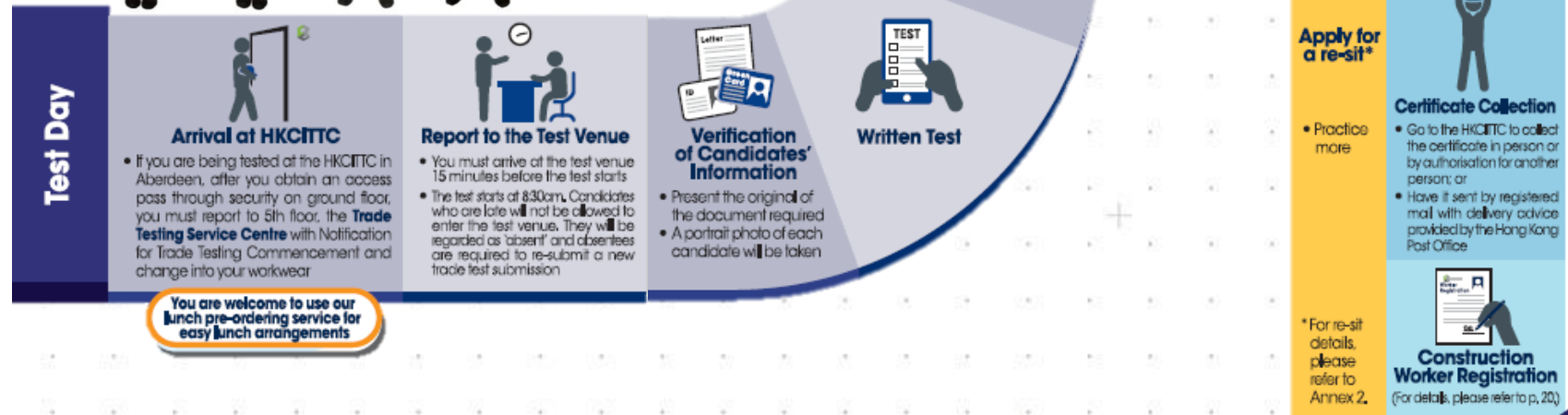


Arrival Time for Registration on L5e Service Centre
到達L5e服務中心登記時間

Appropriate
Work wear



Watch the Video !



4. 木模板工 (土木工程) 中級工藝測試 (中工) Intermediate Trade Test for Carpenter (Formwork - Civil Construction)

筆試
Written Test
限時30分鐘
Time Limit
30 Minutes



(由2020年1月1日起所有工藝測試均設筆試)
(Written Test session applies to all trade test &
intermediate trade test from 1 Jan 2020 onwards.)

實務試
Practical Test
限時3小時
Time Limit 3 Hours



4.1 筆試內容 Written Test Content

筆試 Written Test

測試限時 Time Limit	30分鐘 30 Minutes
測試內容 Test Content	10條選擇題 10 Multiple Choice Questions
合格要求 Passing Requirement	答對6條或以上為合格 Answer 6 (or above) questions correctly will be awarded a “pass”



筆試範疇


Scope of Written Test

- ✓ 相關工種項目的技術知識 Understanding on trade skill
- ✓ 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

木模板工(土木工程)中級工藝測試 (中工)
技術知識測試 (筆試) 內容參考資料

木模板工(土木工程)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筆試的參考用途：

- 根據板跡疏密而言，板跡少於 1 毫米是良好製作的模板。
- 構造木模板時，最常用的是 2 寸長粗鐵釘。
- 兩段護土牆體的接縫位安裝止水帶的作用是防止滲水。
- 清水模板（見光面模板）最常採用於護土牆及天橋等。
- 間牆及柱體腳留“生口”，其作用為方便清除雜物及垃圾。
- 水缸或護土牆模板採用“花籃”而不採用膠筒安裝，其作用是防止水份滲過牆體。
- 支撐樓底的木頂釘設聯條（俗稱二棘），是增強支撐力度。
- 模板釘裝完成後，其整體構件必須具備足夠的強度、剛度和穩定性。
- 0.9 米 x 0.9 米 x 2.5 米高的獨立柱模板，在柱角最少要釘四支拖撐才穩固。
- 在模板上掃一層脫模油的作用是防止混凝土黏貼模板。
- 木模板的立頂、底龍及面欄都是主要受力構件，一般選取的枋料是順直料及堅韌料。
- 結構物外牆內留有的膠筒須撞出並塞孔，其作用是防止滲水。
- 在木工機床上刨或鋸木料至尾端時，應用叉頭推木棒（或推杆）或卡壓刨木座推送餘料。
- 要鋸出有角度要求的木條，應使用可調較角度的開鋸較為適當。
- 工作時電動工具發生故障應停止使用報告主管安排修理。
- 每次使用鋸床開料後，鋸床應保持整潔，碎料及木屑應隨即清離並放入垃圾垃圾箱。
- 不論什麼時間或地點，建築地盤內禁止焚燒建築廢料。
- 雙行棚架上的工作台總闊度不得少於 400 毫米。
- 地盤工作時，應穿著安全鞋保護腳部。
- 地盤工作期間不適宜飲酒精類飲品。

注意事項
本資料的所有內容均只作準備測試的參考用途，並不覆蓋全部測試內容，讀者或考生應參閱相應的正式測試文件，測試內容設有不同版本，內容包括但不限於工具、物料、設備、圖則、施工細節或程序及不同的模擬工地環境等的變更，考生於進行測試時應以正式的測試文件為準。本資料內容如有任何改變、更新或刪除，議會不會另行通知。

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版本：ICC-SM-CN-01



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

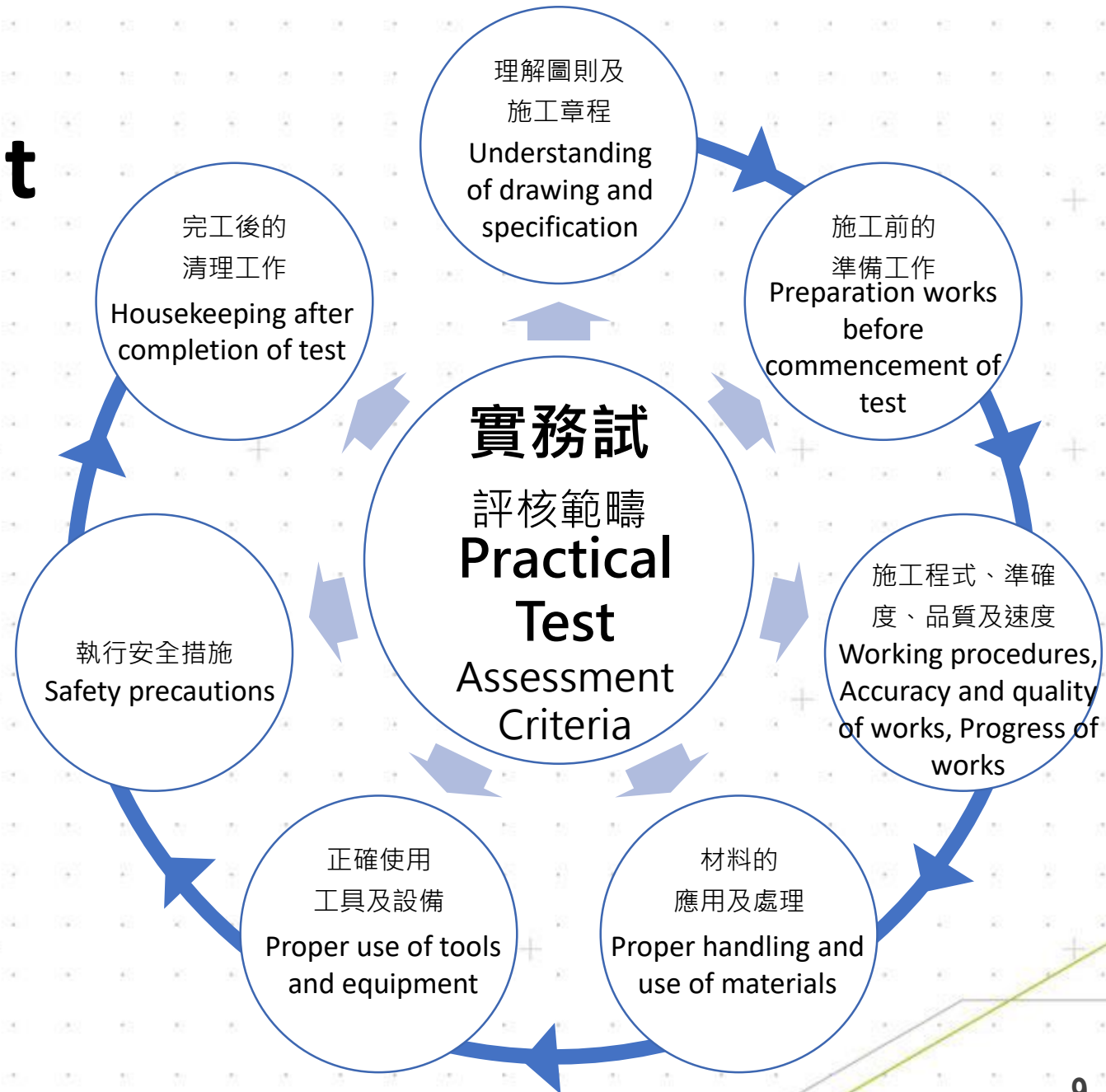


4.2 實務試內容

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:**
 - i. **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.



4.2 實務試內容（續）

Practical Test Content (Continued)

Test Content:

Complete the following items according to the attached drawings:

1. Construct a retaining wall kicker formwork including waling, ties and spreaders.
2. Construct a construction joint of a carriageway and setup six numbers of dowel bars.

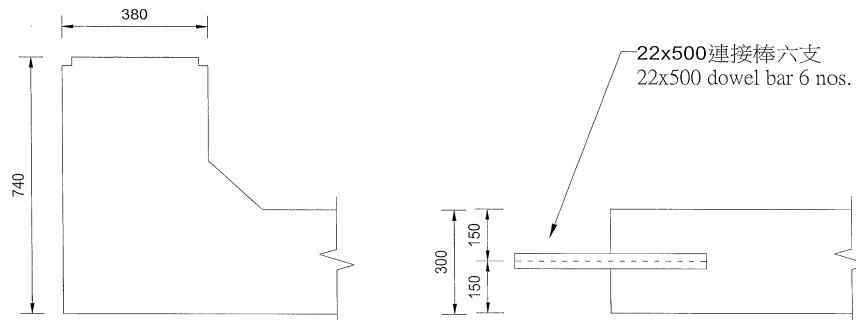


4.2 實務試內容 (續)

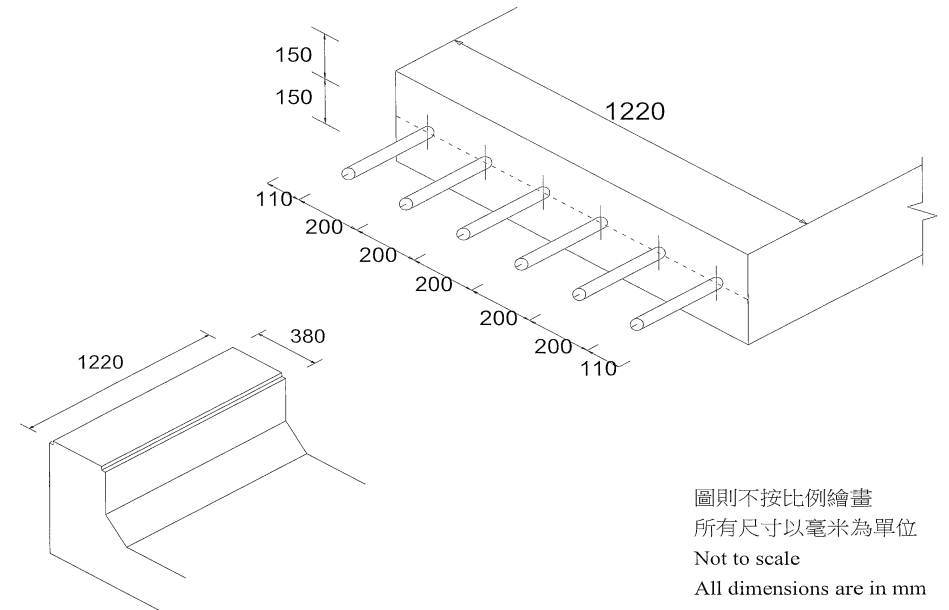
Practical Test Content (Continued)

木模板工(土木工程) 中級工藝測試施工圖

Carpenter (Formwork-Civil) Intermediate Trade Test



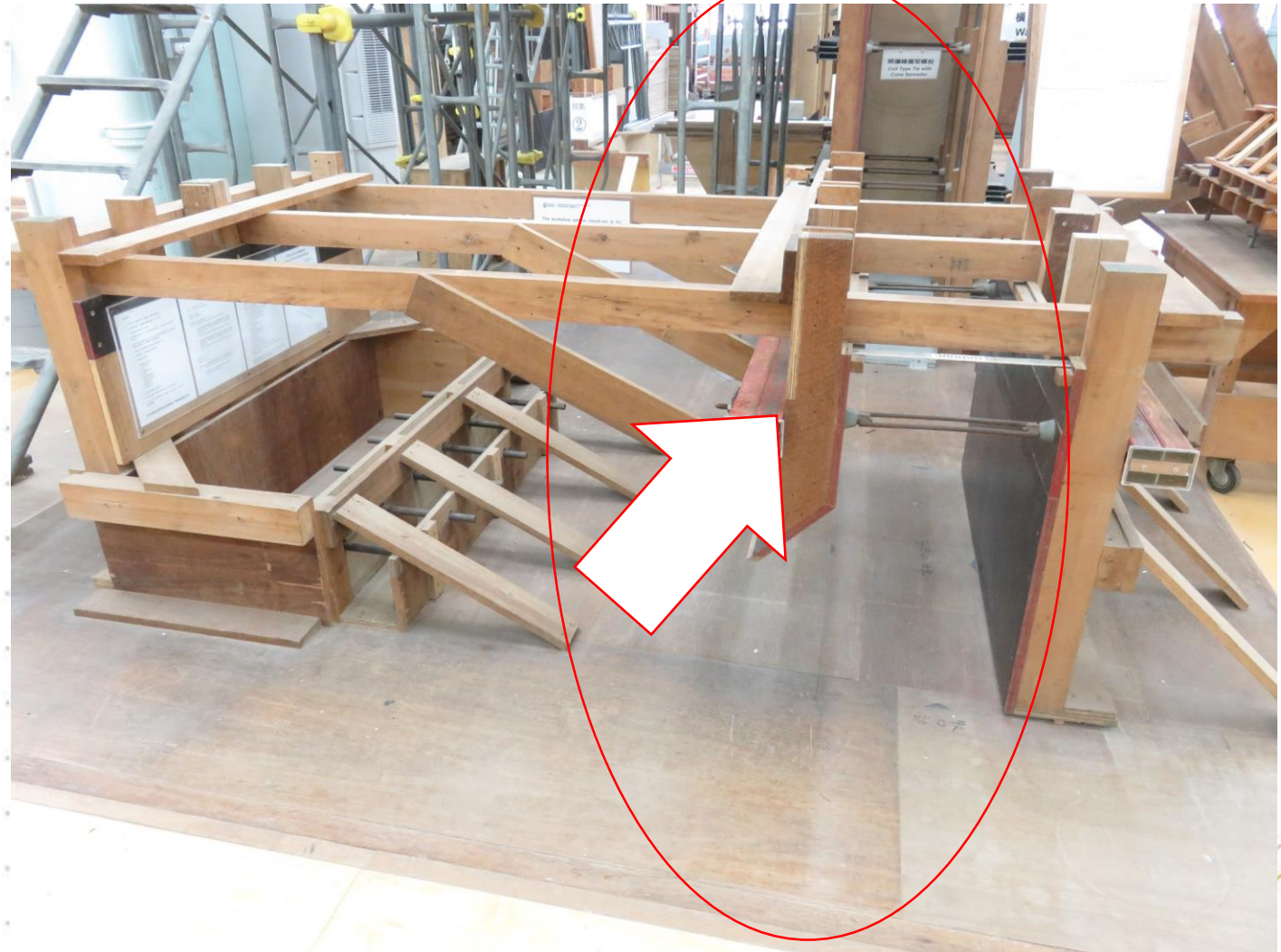
側面切面圖 / Side-view



4.2 實務試內容（續）

Practical Test Content (Continued)

“棘架” 及馬路收口
Guide wall (Kicker), road
section



4.3 測試工場 Trade Testing Workshop

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



4.3 測試工場（續）

Trade Testing Workshop (Continued)



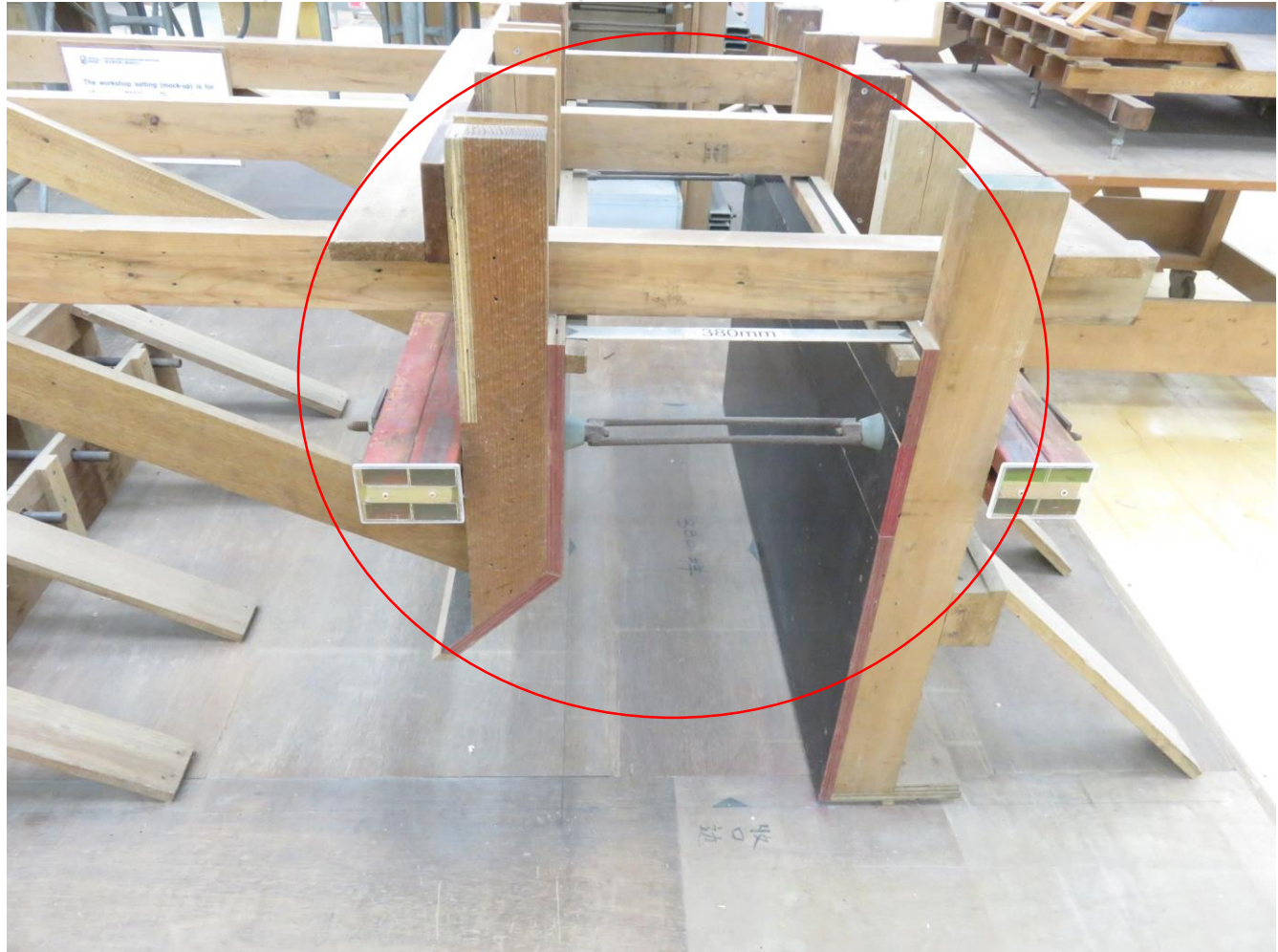
4.3 測試工場 (續) Trade Testing Workshop (Continued)



4.3 成品樣板 Mock-up

1). “棘架”

Guide wall (Kicker)



4.3 成品樣板 (續) Mock-up (Continued)

2). 馬路收口
Road section



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	釘鎚 Carpenter Hammer		2	釘袋 Nail Bag	
3	900毫米平水尺 Spirit Level		4	21#扳手 Wrench	
5	5米拉尺 Measuring Tape		6	木土鉛筆 Woodworking Pencil	



4.4 主要設備工具表（續）

Major Equipment and Tools List (Continued)

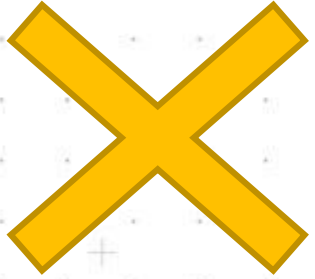
序號 Item	名稱 Name	圖片 Photo	序號 Item	名稱 Name	圖片 Photo
7	電鑽 Electric drill		8	鐵筆 Crowbar	

4.4 主要安全用品列表

Major Safety Tools List

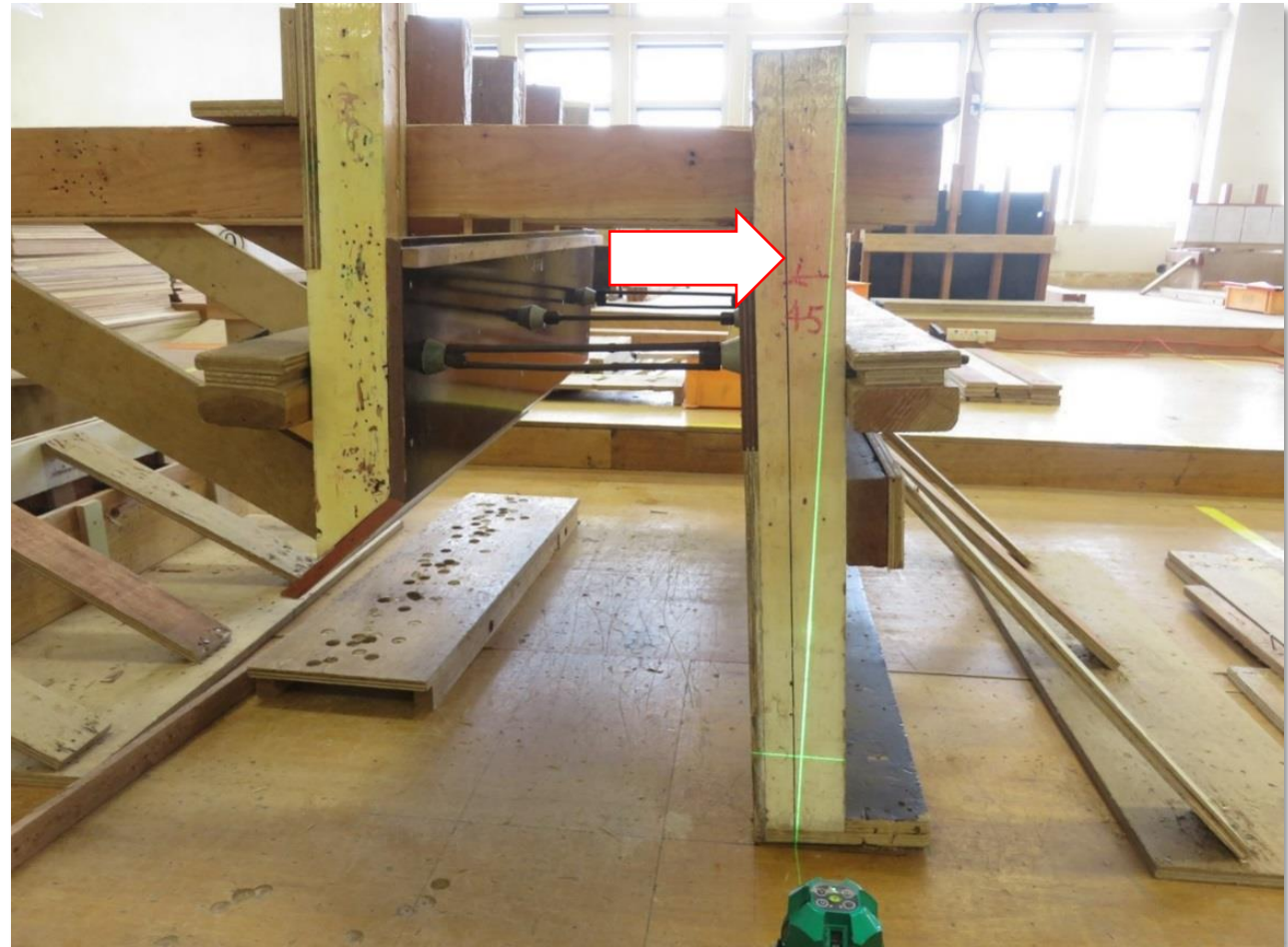
序號 Item	名稱 Name	圖片 Photo	序號 Item	名稱 Name	圖片 Photo
1	安全帽及 Y型帽帶 Safety helmet with chinstrap		2	護目鏡 Protective glasses	

4.5 常犯錯誤 Common Mistakes

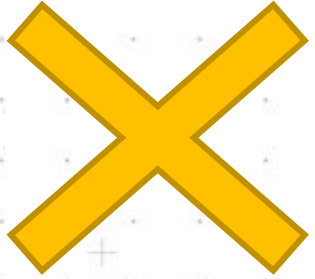


“棘架” 外側板不垂直

Vertical discrepancy of the
external side panel of guide wall

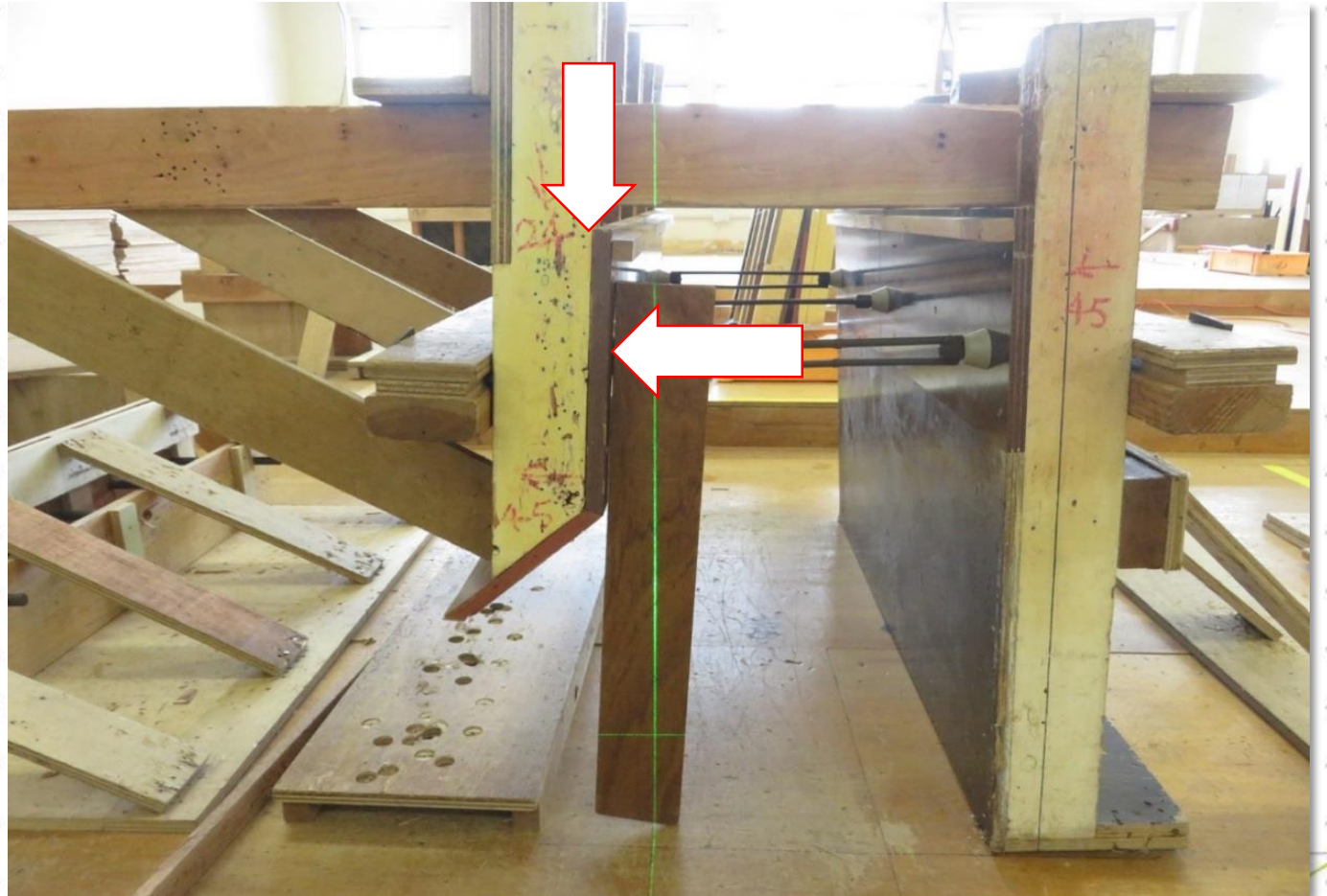


4.5 常犯錯誤 (續) Common Mistakes (Continued)

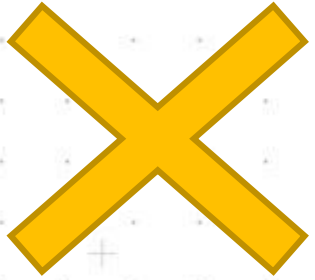


柱體不垂直

Guide wall internal mitre
suspended board Vertical/
dimensions discrepancy

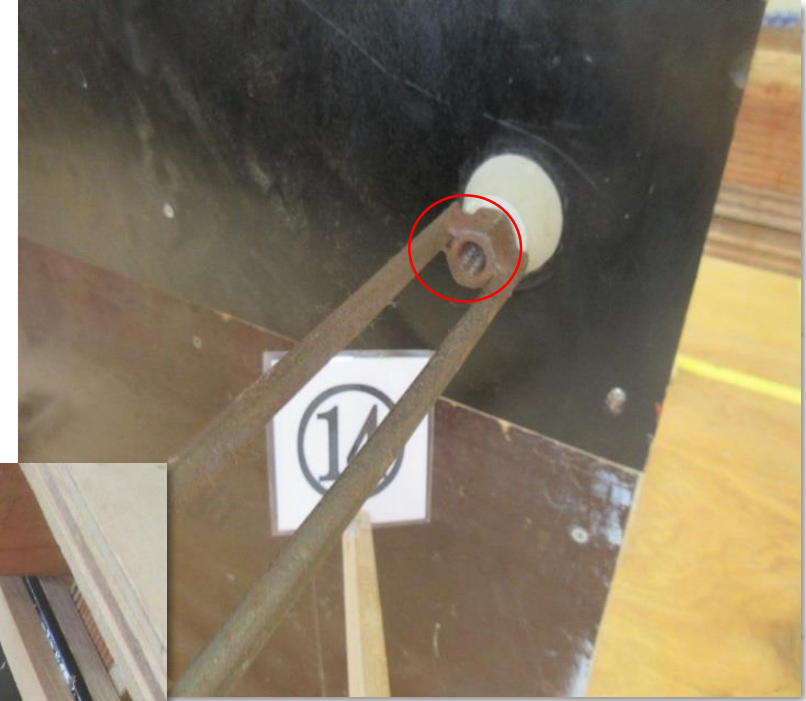


4.5 常犯錯誤 (續) Common Mistakes (Continued)

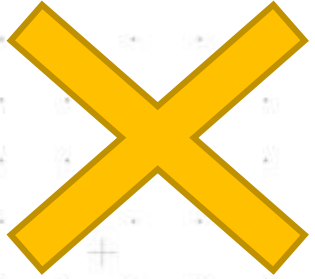


“棘架” 螺絲栓扭入 “花籃”
過淺或過深

Guide wall bolts are excessively
/ inadequately screwed into the
anchors



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

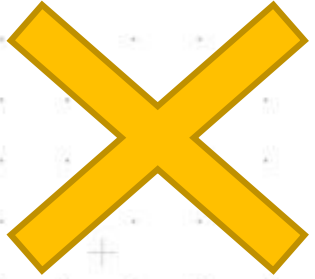


連接棒安裝不依圖則尺寸及歪斜

Installation of connecting rods presents dimensions discrepancy



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

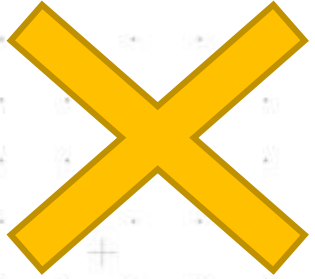


收口板安裝不依墨線

Nailing and installation of finishing board presents discrepancy from the leveller line

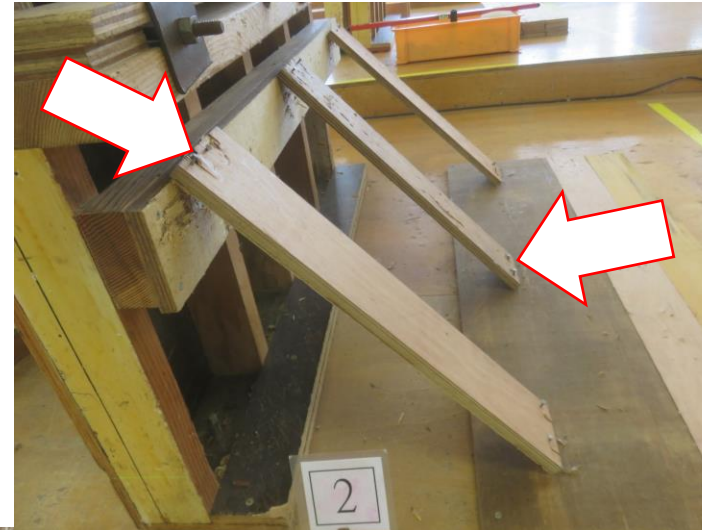


4.5 常犯錯誤 (續) Common Mistakes (Continued)



收口板安裝不穩固

Finishing board does not come
with sturdy toe-board /
is not supported sturdily



5. Candidate Resources

Quick & Easy

**Trade Test
Application**



TTOA
Mobile APP

Preparation Tips



YouTube

Trade Test Tips

**Must-see
before Test**



Trade Test Information

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



Q&A Session

Please feel free to contact us for any enquiries.

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