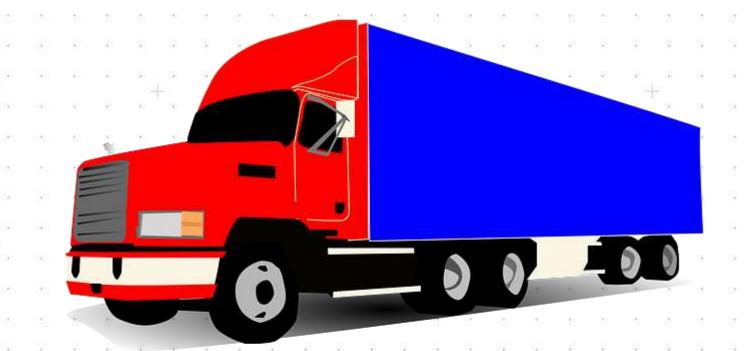
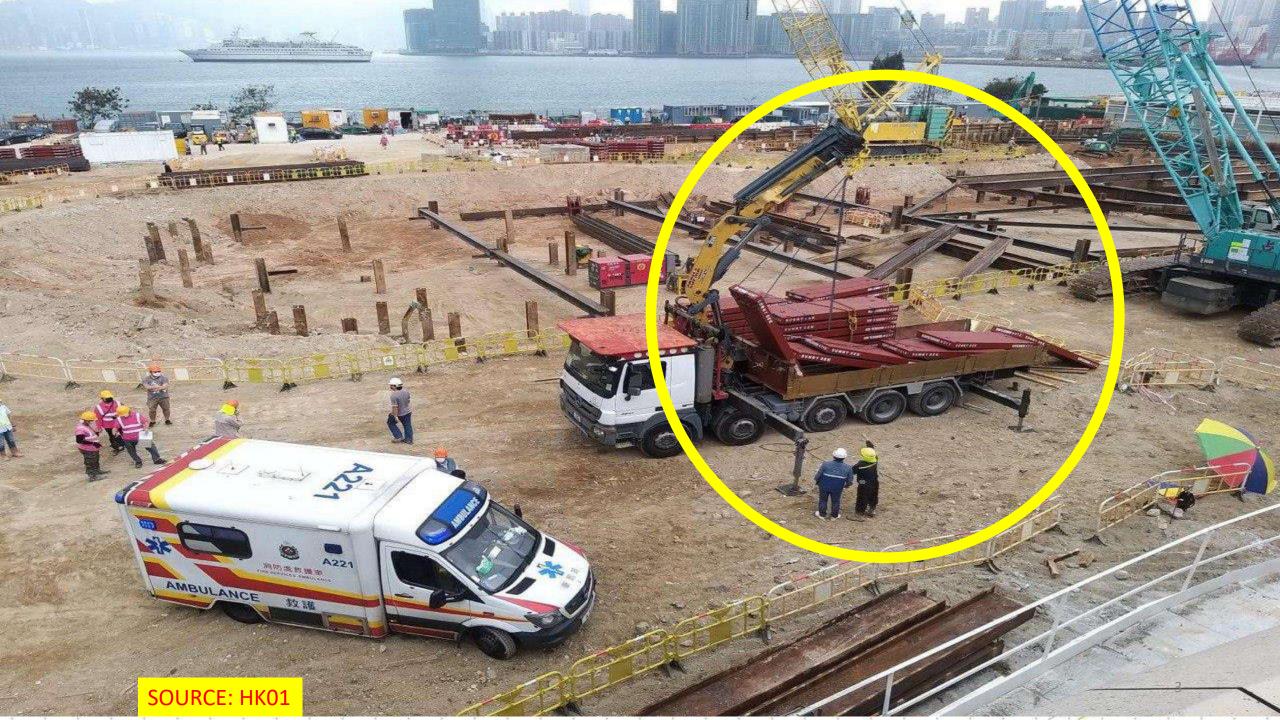


## Recent Fatal Accident in Kai Tak (14 Apr 2021)

Hazard of unloading Material









# 吊臂操作員屯門醫院兩米高的起重機平台墮下,留醫10日後不治

一名64歲姓李吊臂操作員,15/01/2021 由地盤兩 米高吊機平台墮下,入院搶救後情況危殆,留醫 10日後不治。

屯門醫院手術室大樓擴建工程。當日晚上9時許 4名吊臂操作員需移走地盤天秤,其中3人正在兩 米高的起重機平台,事主則在未有繫安全帶情況 下,蹲在起重機的邊緣,疑突然踩空由平台墮下 傷及頭骨及左胸骨。

https://https://www.hk01.com/突發/578925/屯門醫院擴建地盤-64歲工人2米平台墮下-留醫10日不治?utm\_source=01appshare&utm\_medium=referral





### **Lifting Safety Courses Provided by HKIC**

- Crane Operator Training Courses
- Crane Operator Certification Tests
  - Certificate For Tower Crane Assemble Technician Assistant
- Silver Card A12 Construction Materials Rigger
- Silver Card A12S Rigger & Signaler
- Refresher Training for Silver Card A12 and A12S
- Lifting Safety Supervisor Course



Cranes Operator Programme	Date	Training Venue
Truck-Mounted Crane Operation Course	12 Days	
Wheeled Telescopic Mobile Crane Operation	50 Days	
Crawler-Mounted Crane Operation	50 Days	Tai Po Training Ground
Tower Crane Operation	37 Days	
Certificate For Tower Crane Assemble Technician Assistant	81 Days	

<b>Certification Test for Crane Operators</b>	Date	Training Venue
Tower Crane	3 Day	Tai Po Training Ground
Wheeled Telescopic Mobile Crane		
Crawler-mounted Mobile Crane		
Truck-mounted Crane		
Gantry Crane		
Derrick Crane		
Re-validation Test	1 Day	Tai Po Training Ground

### **Construction Materials Rigger (A12)**

Module 1 3.5 hours (D1 a.m.)

Module 2 4 hours (D1 p.m.)

Module 3
7.5 hours
(Day 2)

Tat Mei Road Training Ground

**Kwai Chung** 

Campus,

7-11 Kwai Hop

Street

- Lifting Accidents
- Legislation Requirement
- L lifting appliances and Gears
   Safe working practices
- Proper use of PPE
- Inspection for lifting gears
- Basic principals of safe lifting operations
- Case study/ Written test

Practical Exam



### Rigger and Signaller (A12S)

Rigger
Day 1
7.5 hours
Theory

Rigger
Day 2
7.5 hours
Practical
Training

Signaller
Day 3
7 hours

Course Content Same as A12 Day One(1)

Tai Po Training Ground



- Practice Standard Hand Signals and Radio communication
- Case Study and Practical Test





## A12 Vs A12S

	建造工地 吊運操作訊號員	(A12)銀卡課程 -工地建材索具工	(A12S)銀卡課程 索具工 及 訊號員
	(SHO)	(UPDATED)	(NEW)
現況	已開設課程	已開設課程	新開設課程
推出A12S後的 課程未來方向	將會停辦	維持不變	新開設課程
上課時間	七小時	兩天全日制	三天全日制 (第一天及第二天- 內容:A12) (第三天 -內容: SHO)
可從事工作	訊號員	索具工	索具工 + 訊號員
証書有效期	永久有效	三年有效	三年有效
覆証	不設覆証課程	一天制覆証課程	一天制覆証課程
預計開辦/結束 課程日期	2020年第二季 結束課程	己開辦	己開辦
証書持有人 取得A12S銀卡 証書的方法	完成A12S 第一及第二 天課程	完成A12S第三天課程	學員完成三天課程及考試
	完成 <b>A12S</b> 覆証課程		



### A12S - 索具工及訊號員





### **Certificate for Lifting Safety Supervisors (LSSZ)**

**Lifting Theory** Day 1 7.5 hours **Kwai Chung** Campus, **Risk Assessment** 7-11 Kwai Hop **Lifting Plan** Street Day 2 **Preparation** 7.5 hours **Issue of Lifting Permit Tat Mei Road Practical Exam** Day 3 Training 7.5 hours Ground

A12 – Rigger (Day 1)

A12 – Rigger ( Day 2) A12S – Rigger & Signaller (Day 1)

A12S – Rigger & Signaller (Day 2)

A12S – Rigger & Signaller (Day 3)



A125

Lifting Safety Supervisor (Day 1)

Lifting Safety Supervisor (Day 2)

Lifting Safety Supervisor (Day 3)

### **Certificate for Lifting Safety Supervisors (LSSZ)**

- Applicant must have at least 3 years of construction experience • ~in management and has been employed and recommended by the Main Contractor;
- Applicant must present valid certificates of "A12 silver card" AND "SHO signalman" issued by CIC; or a Valid certificate of "A12S Silver Card"; AND
- Must have the ability to read and write Chinese and English.



CHAN TAI MAN

has satisfactorily completed a 22.5-hour course

and is hereby awarded the

Certificate for Lifting Safety Supervisors

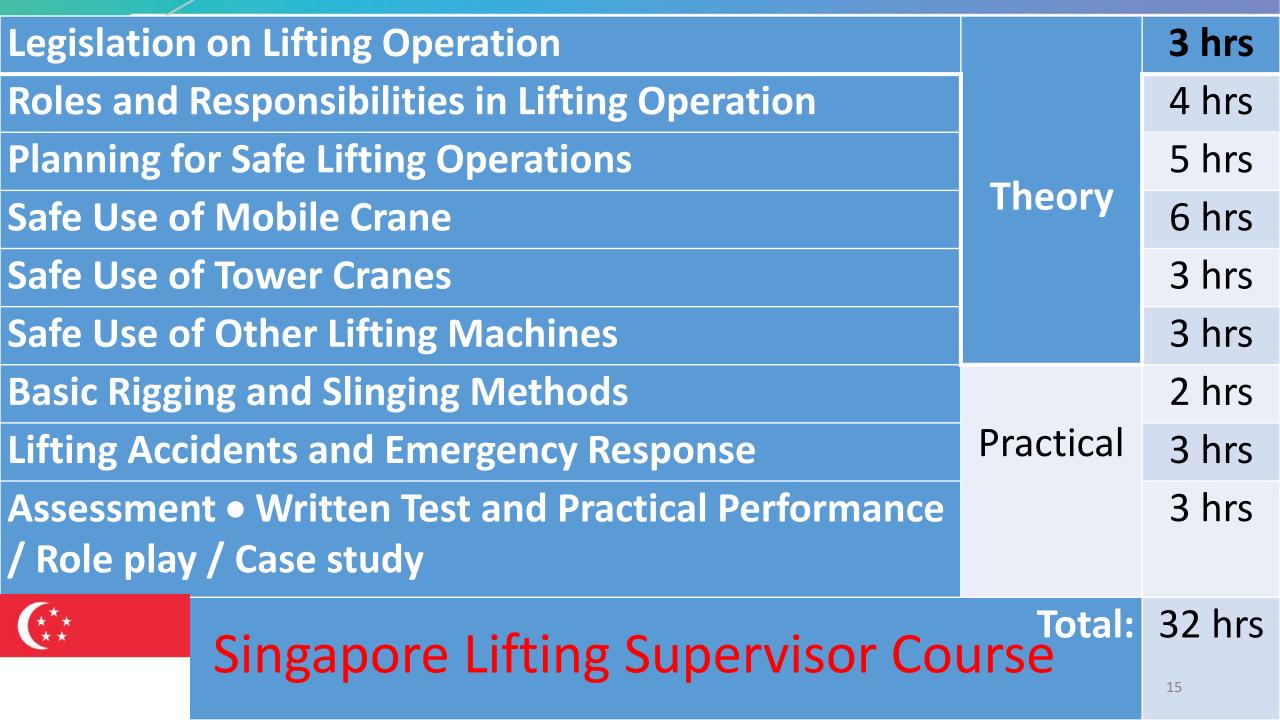














### **HKIC Courses For MiC**



# Modular Integrated Construction (MiC) Courses Provided by HKIC

- Certificate In Modular Integrated Construction Unit Installation
- Certificate in Modular Integrated Construction (MiC) for Foreman
- Professional Certificate in Modular Integrated Construction (MiC) for Project Managers and Clerks of Works



# Certificate In Modular Integrated Construction Unit Installation

Duration: 15 Day (Day Class)

Venues : Tai Po Training Ground

#### • Curriculum:

- 1. Professional ethics, basic safety and environmental protection knowledge
- 2. Basic knowledge and cases of the installation of various assembled composite components





# Certificate In Modular Integrated Construction Unit Installation Curriculum:

- 3. Transportation procedures and application methods (requirements for waterway, land, and tunnel)
- 4. Assembly tools, operation and construction procedures
- 5. Risk assessment and hazard identification
- 6. Building Information Simulation (BIM)
- 7. Assembly method and safe operation
- 8. Assembly and construction training
- 9. Final Evaluation



## Certificate in Modular Integrated Construction (MiC)

for Foreman

Duration: 55.5 Hours (Evening Class)

• Venues : Kowloon Bay Campus

#### • Curriculum:

- 1. Duty and professional conduct of foreman
- 2. Method and workflow of MiC
- 3. Reliable quality and quality control
- 4. Construction cycle
- 5. Site layout





# Certificate in Modular Integrated Construction (MiC) for Foreman - Curriculum

- 6. Work arrangement and safety use of tower crane
- 7. Transportation, receipt, storage, lifting and assembly of integrated modules
- 8. Changes in works and roles of a foreman
- 9. Site safety and environment protection requirement
- 10. Levelling & surveying and use of related equipment
- 11. Use of BIM on MiC



## Certificate in Modular Integrated Construction (MiC) for Foreman - Curriculum

13.Basic Safety Appreciation Course for Crane Operation for Front Line Management (Tai Po Training Ground – One Day Class on Sat)

#### 14.Final assessment







## Professional Certificate in Modular Integrated Construction (MiC) for Project Managers and Clerks of Works

Duration: 51 Hours (Evening Class)

Venues : Kowloon Bay Campus

- Curriculum:
- 1. Understanding Design for manufacturing and assembly (DfMA) and Modular Integrated Construction
- 2. Relevant legislative requirements
- 3. Roles, responsibilities and work ethics of Project Managers and Clerks of Works



# Professional Certificate in Modular Integrated Construction (MiC) for Project Managers and Clerks of Works

- 4. Construction Method and process of Modular Integrated Construction
- 5. Process, quality control and related documents for production of modular units in factory
- 6. Transportation Arrangement of Modular Units
- 7. Site Layout Planning
- 8. Selection and use of Cranes
- 9. Construction Cycle
- 10.Just-in-time (JIT) Concept



# Professional Certificate in Modular Integrated Construction (MiC) for Project Managers and Clerks of Works

- 11.Lifting and Installation of Modular Units
- 12. Works Supervision and Inspection for "Modular Integrated Construction" Method and associated testings
- 13. Construction Safety and Environmental Protection Measures
- **14.BIM Management Platform**
- **15.Final Assessment**













# Construction Sites (Safety) Regulations: Part VA CSSR – 38A(2) & 38AA(2)

- Safe Suitable and adequate safe access to and egress from every place of work on a construction site shall be provided.
- Every safe access to and egress from every place of work on a construction site shall be properly maintained.









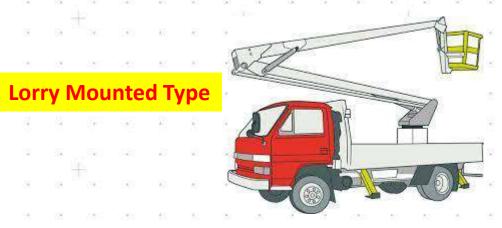
### Construction Sites (Safety) Regulations: Part VA

- · "Adequate steps" (足夠的步驟) shall include the provision, use and maintenance of one or more of the following—
- (a)working platforms;
- (b)guard-rails, barriers, toe-boards and fences;
- (c)coverings for openings;
- (d)gangways and runs.





### **Working Platform**





### **The Scissor Type**



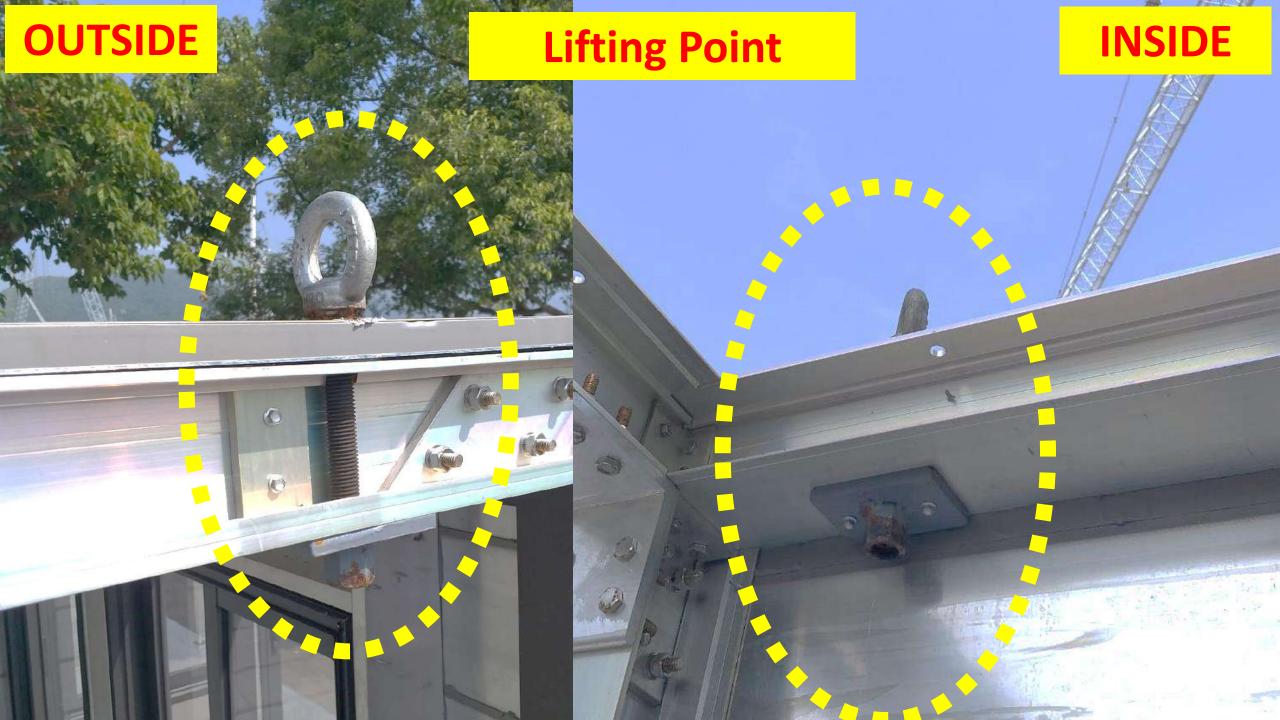
















#### **LG** – F.6, F.7

(1)(d) ] )(d)[[]

Certification No.: WW-21-MAY Factories and Indust

MINATION OF CERTIFICATE OF TEST AND THOROUGH CHAINS, ROPES AND LIFTING

Form approved by the Commissioner for Labour for the purposes of regulation 18(1) Industrial Undertakings (Lifting Appliances and Lifting Gear) Regulation 工版及工業經營(起重機械及起重裝置)規例

越條-缆索及起重裝置的測試及徹底檢驗結果證明部

本表格乃由勞工處處長就工歷及工業經營(起重機械及起盘裝置)規例第18(1)(d)條的需要而認可

Name of owner and address of installation of the chain, rope or lifting gear tested and examined. 接受測試及檢驗的鏈條、擬索或起重裝置的

撰有人姓名及安装地址

CONSTRUCTION INDUSTRY COUNCIL

Test Site: J&P Workshop, Luk Keng

Description of chain, rope or lifting gear tested and distinguishing mark 接受制制的目標、機器概能重要的的規則及與附標語	Test load applied (tonnes) 期於明明使用的負荷 (以公開為單位)	Safe working load (tonnes) 安全操作負荷 (以公顺為單位)	Defects noted  If none enter "None" and  state whether in safe working order.  注明所發現的毛刺 如顯不妥,剛琪「無」不能証明是否認於安全結構快快應
Master Link Size : dia. 25 mm x 140 mm(W) x 270 mm (L) Owner's I.D. : K99 & K100	16,00 t	8.00 t	"None" In safe working order

I hereby certify that on the gear described in this certificate was tested and 5-May-21 茲證明本人曾於二〇 年 月 日 依照附表1的规定測試及 

Signature of Registered Professional Engineer 註 冊 專 業 工 程 師 簽 署

Ir Kwok Kin Wai

Qualification

註冊資格

BSc(Eng)(Hons), MBA, MHKIE, MIEAust, RPE (RP 0406630)

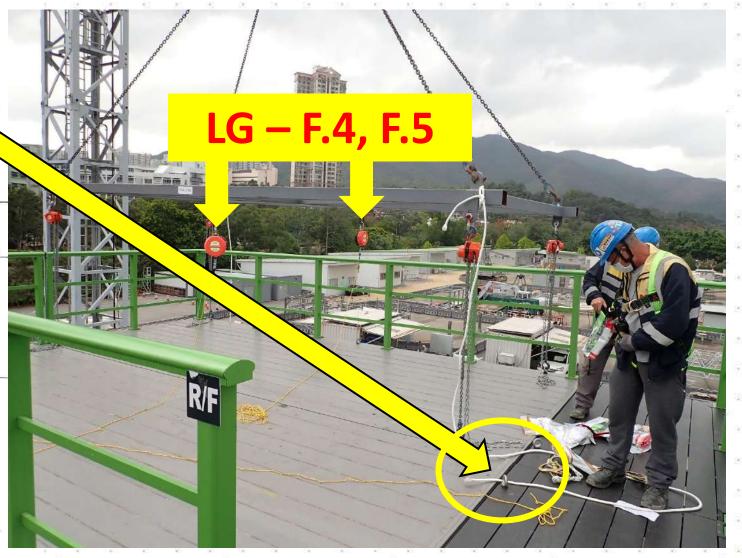
Discipline Mechanical, Materials

註冊界別 Person or firm by whom person conducting the test and 僱 用 執 行 此 項 測 試 及 檢 驗 examination is employed .

的人士或商號

J&P SURVEYORS AND TEST HOUSE LTD. Room 210, 2/F, Poly Centre, 15 Yip Fung Street, On Lok Tsuen. Fanling, New Territories, Hong Kong. Tel: (852) 2770 6296 Fax: (852) 2374 3531 **酸素公證行有限公司** 新界粉嶺安樂村業豐街15號資利中心2樓 210室

Date of certificate 簽發日期 Any competent examiner or competent person who delivers to an owner a certificate or makes a report which is to his knowledge false as to a material particular shall be guilty of an offence and shall be liable on conviction to a fine of \$200,000 and to imprisonment for 12 months. 任何合資格檢驗員或合資格的人,如向損有人交付他明知有任何要項腦處假的證明書或作出 他明知有任何要項屬虛假的報告,即屬犯罪:一缀定罪,可處罰款二十萬元及監禁十二個月。



Jan - Mar 一月至三月	BLUE 藍	
Apr - Jun 四月至六月	YELLOW 黄	
Jul-Sept 七月至九月	GREEN 線	
Octe Dec 十月至十二月	ORANGE 橙	
To be removed from the site 不能再使用 待移離工地	RED 紅	
Equipment under quarantine 工具待驗	WHITE =	
Not used for lifting purpose 不可作吊重用途	BLACK 黑	



























# **On Site Safety Measure**

- •Person (人)
- Machinery
- Material
- •Method (法)
- Environment





# **Appointment of Lifting Team (Competent Lifting Team)**

- A. Lifting Safety Supervisor is appointed & Perform Duties on site
- B. Banksman/ Signaller (with A12S) is appointed
- C. Riggers (with A12) are appointed & Perform Duties on site
- D. Crane Operator is appointed and perform Duties on site
- E. Elevated Working Platform Operator (If Necessary)





#### **Lifting Method**

- Assessment of the load and Fence off Radius operation area
- Beware of Work at Height/ Work Above Ground
- Check Automatic Safe Load Indicator (ASLI) is function properly
- Correct Use of Lifting Gear and Lifting Point
- Proper colour code, identification number and safe working load are provided for lifting gear
- Use of Double Tag Lines for guiding the Load





## **Lifting Method**

- Assessment of the Load and Fence off Radius Operation Area
- Safety Measures for Work at Height/ Work Above Ground
- Check Automatic Safe Load Indicator (ASLI) is Function Properly
- Correct Use of <u>Lifting Gear</u> and <u>Lifting Point</u>
- Proper Colour code, Identification Number and Safe Working Load (SWL) are provided for Lifting Gear





## **Lifting Method**

- Ensure Clear Communication between Crane Operator and Banksman
- Checking the Route for the Lifting and Unloading Area
- Issue Permit to Lift, and ensure it is in place
- Check again Lifting Area is Properly Fenced
   Off with Warning Notice Display







# To Dedicate To Excel

專業樂業

精益求精



