

# Managing Suspended Working Platform Safety: Lessons from Singapore and Hong Kong



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# Suspended Working Platform Accident (SG)



THE STRAITS TIMES

2 workers stranded on gondola dangling outside Raffles City Tower rescued by SCDF

## 2 workers stranded on gondola dangling outside Raffles City Tower rescued by SCDF

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A gondola was seen hanging from the exterior of the building.

ST PHOTO: KELVIN CHNG

# Suspended Working Platform Accident (SG)



THE STRAITS TIMES

2 workers rescued after gondola tips sideways at HDB block in Boon Lay Drive

## 2 workers rescued after gondola tips sideways at HDB block in Boon Lay Drive

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One worker was brought in through the unit's windows by the Singapore Civil Defence Force (SCDF) while the other worker by a member of the public before SCDF arrived.

ST PHOTO: SHINTARO TAY

# Suspended Working Platform Accident (SG)



THE STRAITS TIMES

SCDF rescues two workers stranded on gondola at Capital Tower in Tanjong Pagar

## SCDF rescues two workers stranded on gondola at Capital Tower in Tanjong Pagar

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SCDF officers preparing to move an injured person into an ambulance, following an incident involving a stuck gondola at 168 Robinson Road on March 20, 2023.

ST PHOTO: JASON QUAH



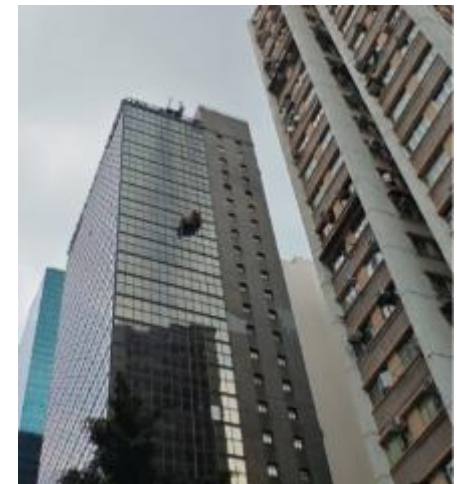
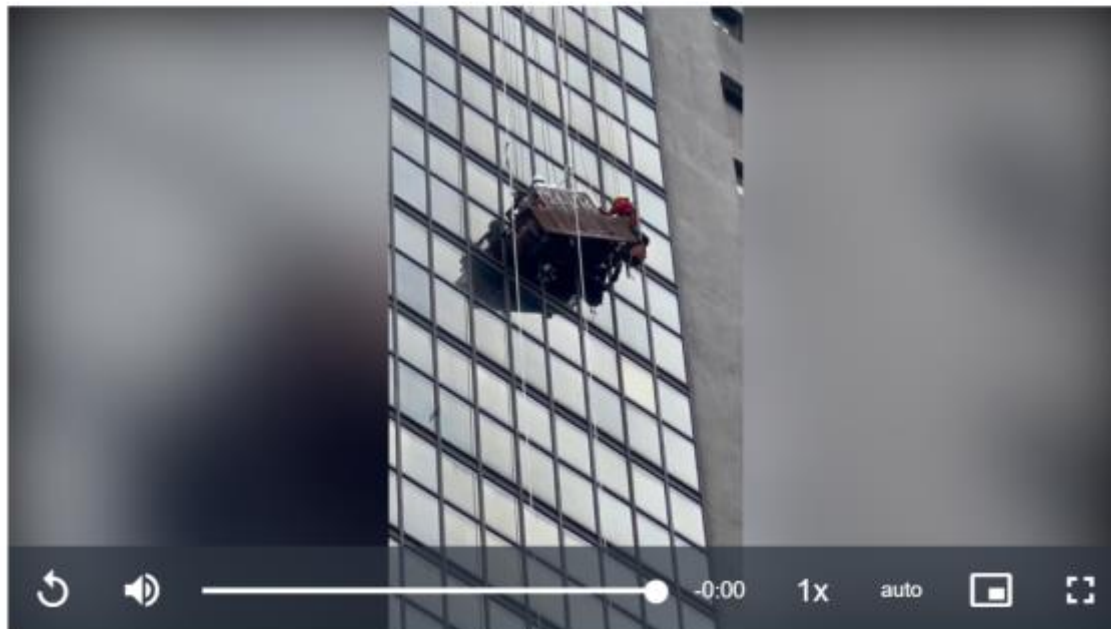
# Suspended Working Platform Accident (HK)



**Watch This | Two workers rescued after being trapped on suspended platform outside commercial building in Wan Chai**

Video | 2025.04.30 16:28

<https://english.dotdotnews.com/a/202504/30/AP6811dba7e4b0e343b0e88c0f.html>



# Temporary Vs Permanent Suspended Working Platform



VS

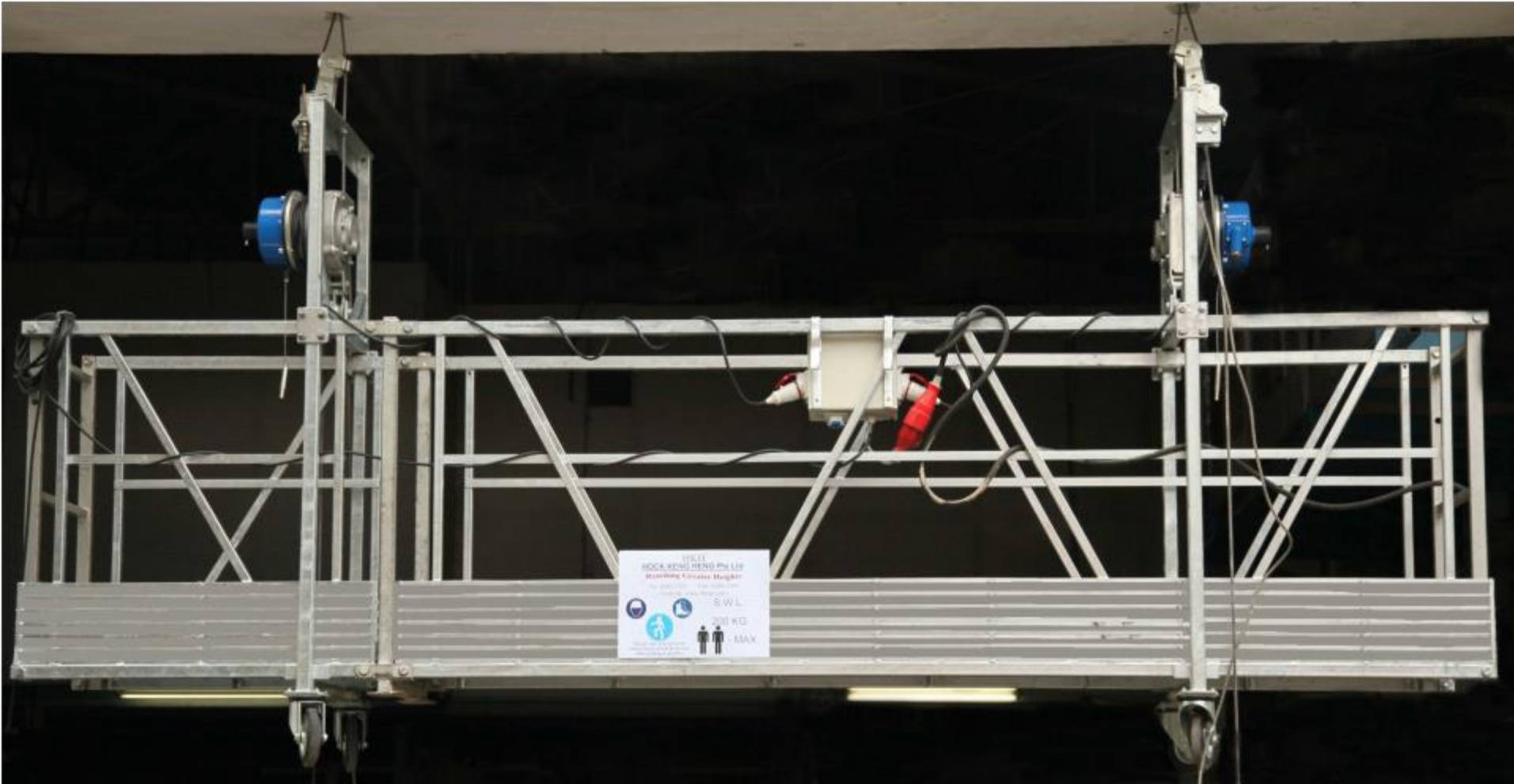




# Temporary Suspended Working Platform

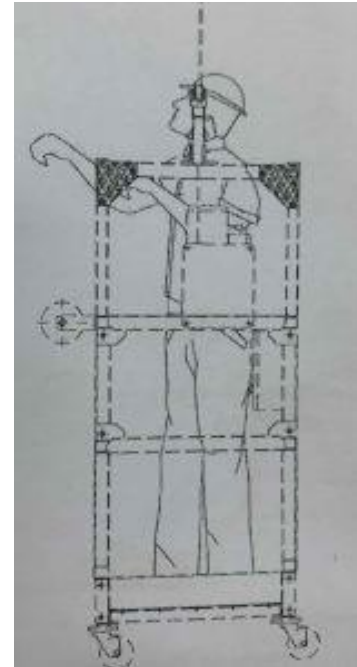


# Temporary Suspended Working Platform





# Suspended Platform / Cradle



# Use of SWP



- Cleaning of the external wall
- Applying sealant on the external window frame
- Installation of curtain wall
- Inspection / Repairing of the external wall
- Installation / Inspection of the Air Conditioning Unit
- Replacement of water pipe on external wall

# Components



Hoist / Motor



Wire Ropes



Hoist / Motor



Electric Control Box



Safety Lock



Wire Ropes



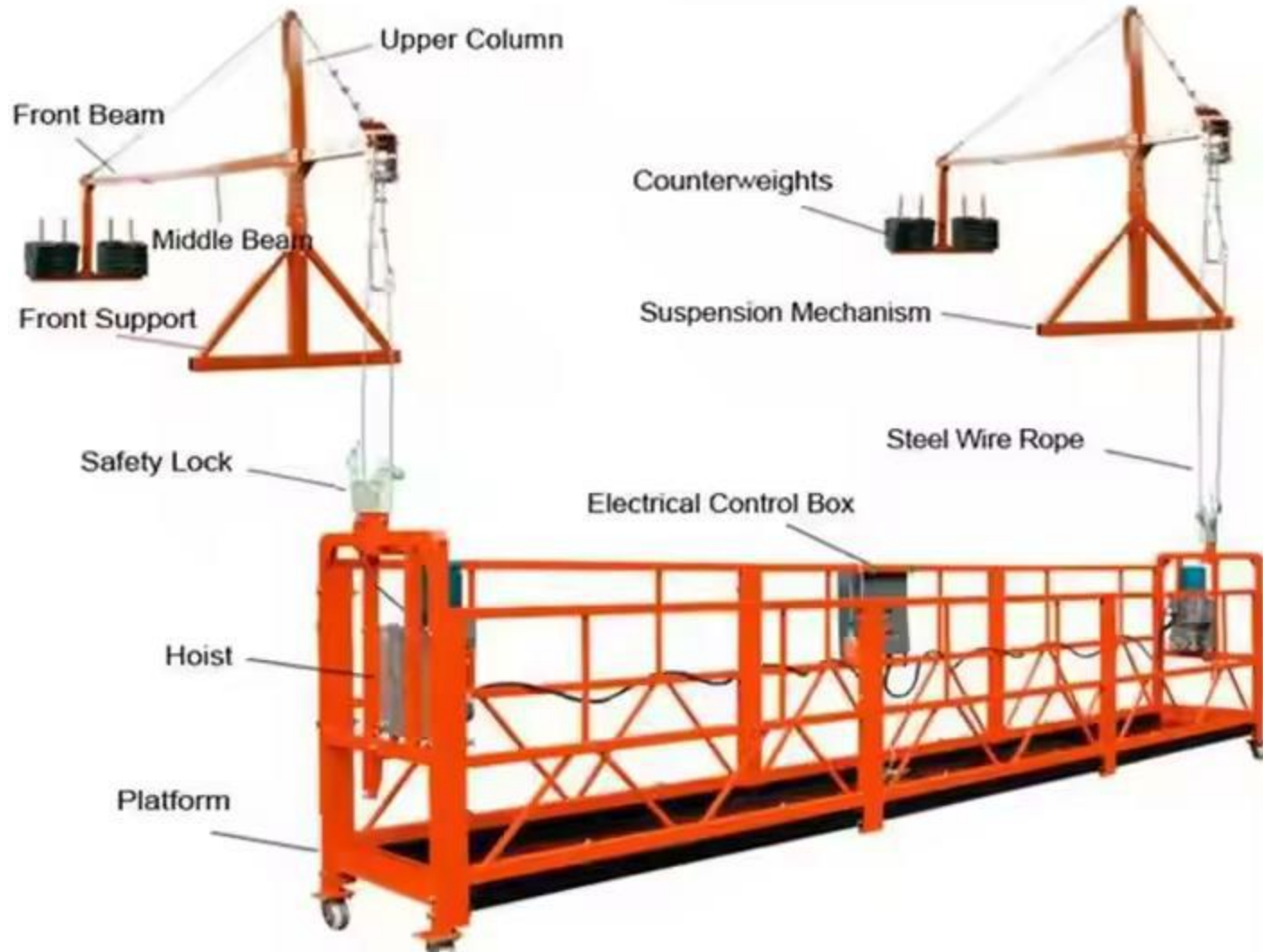
# Temporary SWP System



- Parapet Clamp
- Counterweight System



# Temporary SWP System



# Permanent SWP





# Permanent SWP



# Permanent SWP



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# Permanent SWP





# Permanent SWP



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# Permanent SWP



Davit type

# Hong Kong

## - Legal Requirements



- Factories and Industrial Undertakings Ordinance
- Factories and Industrial Undertakings (Suspended Working Platforms) Regulations
- Factories and Industrial Undertakings (Lifting Appliances and Lifting Gear) Regulations
- Code of Practice for Safe Use and Operation of Suspended Working Platforms
- Guidance Notes on Inspection, Thorough Examination and Testing of Lifting Appliances and Lifting Gear



# Hong Kong

## - Certification & Inspection



- Examination by Competent Examiner – Registered Professional Engineer (Mechanical or Marine Discipline), every 6 and 12 months
- Inspection by Competent Person immediately preceding 7 days before its use

# Hong Kong

## - Certification & Inspection



**FORM 1**  
表格一

[section 19(1)]  
〔規例第 19(1)條〕

Name of Owner  
擁有人姓名 : .....

FACTORIES AND INDUSTRIAL UNDERTAKINGS (SUSPENDED WORKING PLATFORMS) REGULATION

.....  
**CERTIFICATE OF WEEKLY INSPECTIONS OF SUSPENDED WORKING PLATFORM**  
.....  
*Form approved by the Commissioner for Labour for the purposes of Section 19(1) of the  
Factories and Industrial Undertakings (Suspended Working Platforms) Regulation*

Address of Installation  
安裝地址 : .....

工廠及工業經營(吊船)規例  
吊船的每週檢查證明書

本表格乃由勞工處處長就工廠及工業經營(吊船)規例第 19(1)條的需要而認可

Description of suspended working platform and identification mark 吊船的說明及識別標記	Date of inspection 檢查的日期	Result of inspection (covering all lifting appliances and gear, the working platform, counter-balance, ballast, outriggers, anchoring, supporting or fixing arrangements, all mechanical and electrical apparatus and safety devices) State whether in safe working order 檢查結果 (包括所有起重機械及裝置、工作平台、平衡系統、壓重物、支撐物、錨定、支撐或固定安排、所有機電器具及安全裝置) 述明是否處於安全操作狀態。	Name, signature and designation of the competent person who made the inspection 進行檢查的合資格的人的姓名、簽署及職級
(1)	(2)	(3)	(4)

An owner shall ensure that a suspended working platform is not used for carrying persons unless he has obtained a certificate of weekly inspection signed by a competent person stating that the suspended working platform is in safe working order. Otherwise, he commits an offence and is liable on conviction to a fine of \$200,000 and to imprisonment for 12 months.

在未取得合資格的人簽署的每週檢查證明書，述明吊船處於安全操作狀態，擁有人如使用該吊船載人，即屬犯罪；一經定罪，可處罰款二十萬元及監禁十二個月。

SWP-FI

# Hong Kong

## - Certification & Inspection



**FORM 2** [section 20(1)]  
**表格二** [規例第 20(1)條]  
**FACTORIES AND INDUSTRIAL UNDERTAKINGS (SUSPENDED WORKING PLATFORMS) REGULATION**

**CERTIFICATE OF THOROUGH EXAMINATION OF SUSPENDED WORKING PLATFORM**  
*Form approved by the Commissioner for Labour for the purposes of Section 20(1) of the Factories and Industrial Undertakings (Suspended Working Platforms) Regulation*

Name of Owner  
 擁有人姓名 : .....  
 Address of Installation  
 安裝地址 : .....  
 工廠及工業經營(吊船)規例  
 吊船的徹底檢驗證明書  
 本表格乃由勞工處處長就工廠及工業經營(吊船)規例第 20(1)條的需要而認可

Description of suspended working platform e.g. identification mark, dimensions of working platform, safe working load, maximum number of persons that can be carried safely. 吊船的說明，例如：識別標記、工作平台的尺寸、安全操作負荷、安全運載的最多人數等。  (1)	Date of thorough examination 徹底檢驗的日期  (2)	Result of thorough examination 徹底檢驗結果		
		Specify repairs required to enable the suspended working platform to be used safely. If no such repairs are required, state "None". 列明所需修理致能安全地使用此吊船。如無需要修理，則填寫“無”。  (3)	Specify repairs (other than those listed in column (3)) required before the issue of the next certificate. If no such repairs are required, enter "None". 列明在下次發證明書前所需的修理(除卻那些在第三欄內所列舉的修理)。如無需要修理，則填寫“無”。  (4)	State whether the suspended working platform is in safe working order. 述明吊船是否處於安全操作狀態。  (5)

I hereby certify that the suspended working platform described in this certificate was thoroughly examined by me on .....  
 茲證明本人於 .....年.....月.....日 徹底檢驗本證明書所述的吊船。

Name and signature of Registered Professional Engineer .....  
 註冊專業工程師姓名及簽署  
 Date of issue .....  
 簽發日期  
 Qualification .....  
 資格  
 Discipline .....  
 界別

Any competent examiner who delivers to an owner a certificate or report which is to his knowledge false as to a material particular commits an offence and is liable on conviction to a fine of \$200,000 and to imprisonment for 12 months.  
 任何合資格檢驗員，如向擁有人送交他自知有虛假要項的證明書或報告，即屬犯罪；一經定罪，可處罰款二十萬元及監禁十二個月。

SWP-F2



# Hong Kong

## - Certification & Inspection



**FORM 3** [section 20(2) & (3)]  
**表格三** [規例第 20(2)及(3)條]

FACTORIES AND INDUSTRIAL UNDERTAKINGS (SUSPENDED WORKING PLATFORMS) REGULATION

**CERTIFICATE OF LOAD TEST AND THOROUGH EXAMINATION OF  
SUSPENDED WORKING PLATFORM**

*Form approved by the Commissioner for Labour for the purposes of Section 20(2) & (3) of the Factories and  
Industrial Undertakings (Suspended Working Platforms) Regulation*

工廠及工業經營(吊船)規例  
吊船的負荷測試及徹底檢驗證明書

本表格乃由勞工處處長就工廠及工業經營(吊船)規例第 20(2)及(3)款的需要而認可

1. Name of owner of the suspended working platform. 吊船擁有人的姓名。	
2. Address of installation of the suspended working platform. 吊船的安裝地址。	
3. (a) Description of suspended working platform, e.g. identification mark, mode of suspension, dimensions of platform etc. 吊船的說明，例如識別標記、懸吊形式、工作平台的尺寸等。	
(b) Date of manufacture (if ascertainable) 製造日期(如能確定)。	

SWP-F3-1

<p>4. Design and construction — 設計及構造 —</p> <p>Is the suspended working platform of good design and construction, of adequate strength, made of sound material and properly installed? 吊船的設計及構造是否良好，強度是否足夠，物料是否質佳及是否妥為安裝？</p> <p>State "Yes" or "No". If "No", specify what defects have been found. And state the suspended working platform is not in safe working order in paragraph 9 below. 注明“是”或“否”。如屬“否”，則列舉其毛病所在。並於下述第九段內，說明吊船不是處於安全操作狀態。</p>	<p>No 否</p> <p>Note : Details of any renewals or alterations required should be given in paragraph 7 below. 附註：如需要進行任何更換或修改工程，應將詳情註明於下述第七段。</p>
<p>5. Are the following parts of the suspended working platform in safe working order? 下列吊船的部分是否處於安全操作狀態？</p> <p>State "Yes" or "No". 注明“是”或“否”。</p> <p>(a) anchorage and support. 錨定及支持。</p> <p>(b) suspension. 懸吊。</p> <p>(c) counterbalance and counterweights. 平衡系統及平衡重物。</p> <p>(d) platform. 工作平台。</p> <p>(e) access to and egress from the suspended working platform. 吊船的進出途徑。</p> <p>(f) drums and pulleys. 鼓及滑輪。</p> <p>(g) brakes. 制動器。</p>	<p>No 否</p> <p>No 否</p> <p>No 否</p> <p>No 否</p> <p>No 否</p> <p>No 否</p> <p>No 否</p>

SWP-F3-2

# Hong Kong

## - Certification & Inspection



(h) control levers, switches or other operating devices. 控制桿、開關或其他操作器材。	No 否
(i) winches, climbers or other lifting appliances. 絞車、爬升器或其他起重機械。	No 否
(j) safety ropes and safety devices (if applicable under Section 14, state "Yes" or "No". If not, state "N.A."). 安全纜索及安全器材(如根據條例第 14 條適用, 說明"是"或"否"。如不適用, 說明"不適用")。	N.A. 不適用
(k) Other parts. 其他部份。	
6. Test load applied (tonne). 測試時使用的負荷(公噸)。	
7. Specify repairs, renewals or alterations required to enable the suspended working platform to be used safely. If no such repairs, renewals or alterations are required, enter "None". 列明所需修理、更換或修改工程能安全地使用此吊船。如無需要修理、更換或修改, 則填寫"無"。	
8. Specify repairs (other than those listed in paragraph 7) required before the issue of the next certificate. If no such repairs are required, enter "None". 列明在下次發證前所需的修理(除前面第 7 段內所列舉的修理)。如無需要修理, 則填寫"無"。	

SWP-F3-3

9. State whether the suspended working platform is in safe working order. 說明吊船是否處於安全操作狀態。	
10. Safe working load (tonne). 安全操作負荷(公噸)。	
11. Specify the maximum number of persons that can be carried safely. 列明安全運載的最多人數。	
12. Other observations. 其他觀察。	

I certify that on ..... I load tested and thoroughly examined this suspended working platform and that the foregoing is a correct report of the result.  
茲證明本人曾於 .....年 .....月 .....日 為此吊船進行了負荷測試及徹底檢驗, 而前文所述的測試及檢驗結果是正確的。

Name and Signature of Registered Professional Engineer .....  
註冊專業工程師的姓名及簽署

Qualification .....  
資格

Discipline .....  
類別

Name and address of person, company, or association by whom the person conducting the test and examination is employed.  
僱用執行此項測試及檢驗的人士、公司或機構的姓名或名稱及地址。

Date of issue .....  
簽發日期

Any competent examiner who delivers to an owner a certificate or report which is to his knowledge false as to a material particular commits an offence and is liable on conviction to a fine of \$200,000 and to imprisonment for 12 months.  
任何合資格檢驗員, 如向擁有人提交他自知有虛假事項的證明書或報告, 即屬犯罪; 一經定罪, 可處罰款二十萬元及監禁十二個月。

SWP-F3-4

# Hong Kong - Certification & Inspection



**FORM 6** [reg. 18(1)(d)]  
**表格六** [規例第 18(1)(d)條]

**Factories and Industrial Undertakings (Lifting Appliances and Lifting Gear) Regulations**

**CERTIFICATE OF TEST AND THOROUGH EXAMINATION OF CHAINS, ROPES AND LIFTING GEAR**

*Form approved by the Commissioner for Labour for the purposes of regulation 18(1)(d) of the Factories and Industrial Undertakings (Lifting Appliances and Lifting Gear) Regulations*

**工廠及工業經營(起重機械及起重裝置)規例**  
**鏈條、纜索及起重裝置的測試及徹底檢驗結果證明書**

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

Person or firm by whom person conducting the test and examination is employed  
僱用執行此項測試及檢驗的人士或商號

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，如向擁有人交付他明知有任何要項屬虛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；一經定罪，可處罰款二十萬元及監禁十二個月。

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、纜索或起重裝置的擁有人姓名及安裝地址			
Description of chain, rope or lifting gear tested and distinguishing mark 接受測試的鏈條、纜索或起重裝置的說明及識別標誌	Test load applied (tonnes) 測試時所使用的負荷 (以公噸為單位)	Safe working load (tonnes) 安全操作負荷 (以公噸為單位)	Defects noted If none, enter "None" and state whether in safe working order. 註明所發現的毛病 如無不妥，則填「無」字並註明是否處於安全操作狀態。

I hereby certify that on ..... 19..... the gear described in this certificate was tested and thoroughly examined by me in accordance with the First Schedule and that the above particulars are correct.  
茲證明本人曾於一九.....年.....月.....日依照附表 I 的規定測試及徹底檢驗本證書所指的起重裝置，且上述各項均屬確實無訛。

Signature of Registered Professional Engineer .....  
註冊專業工程師簽署

Qualification .....  
註冊資格

Discipline .....  
註冊界別

LALG-F6-2

LALG-F6-1



# Hong Kong

## - Certification & Inspection



Name of owner  
擁有人姓名 ..... [reg 18(1)(e)]  
[規例第 18(1)(e)條]

FORM 7  
表格七

Address of installation  
安裝地址 .....

Factories and Industrial Undertakings (Lifting Appliances and Lifting Gear) Regulations

CHAINS, ROPES AND LIFTING GEAR

CERTIFICATE OF RESULTS OF THOROUGH  
EXAMINATION IN THE PRECEDING SIX MONTHS

Form approved by the Commissioner for Labour for the purposes of regulation 18(1)(e) of the  
Factories and Industrial Undertakings (Lifting Appliances and Lifting Gear) Regulations

工廠及工業經營(起重機械及起重裝置)規例

關於鏈條、纜索及起重裝置

在過往六個月內進行的徹底檢驗結果證明書

本表格乃由勞工處處長就工廠及工業經營(起重機械及起重裝置)規例第 18(1)(e)條的需要而認可

Description of chain, rope or gear, e.g. type, size and identification mark. 鏈條、纜索及起重裝置的說明， 例如：類別、尺寸及識別標誌 (1)	Date of examination 檢驗日期 (2)	Safe working load (tonnes) 安全操作負荷 (以公噸為單位) (3)	Result of examination Enter details of repairs required or defects. If none enter "None" and state whether in safe working order. 檢驗結果，註明所需進行的修理或毛病的詳情 如無不妥，則填「無」字並註明是否處於安全操作狀態 (4)

I hereby certify that the gear described in this certificate was thoroughly examined by me on ..... and that the above particulars are correct.  
茲證明本人曾於 ..... 年 ..... 月 ..... 日 徹底檢驗本證明書所指的起重裝置，且上述各項均屬確實無訛。

Signature of Registered Professional Engineer .....  
註冊專業工程師簽署

Qualification .....  
註冊資格

Date of certificate .....  
簽發日期

Discipline .....  
註冊界別

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，如向擁有人交付他明知有任何要項屬虛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；一經定罪，可處罰款二十萬元及監禁十二個月。

LALG-F7

# Hong Kong

## - Certification & Inspection



**FORM 3**  
**表格三**

[regs 5(3) & (5)]  
[規例第 5(3)及(5)條]

Certificate No. ....  
證明書編號

**CERTIFICATE OF TEST AND THOROUGH EXAMINATION OF CRANE,  
CRABS AND WINCHES**

*Form approved by the Commissioner for Labour for the  
purposes of regulation 5(3) & (5) of the Factories and  
Industrial Undertakings (Lifting Appliances and Lifting Gear) Regulations*

**工廠及工業經營(起重機械及起重裝置)規例**  
**起重機、起重滑車及絞車的測試及徹底檢驗結果證明書**

本表格乃由勞工處處長就工廠及工業經營(起重機械及起重裝置)規例第 5(3)及(5)條的需要而認可

1. Name of owner and address of installation of the appliance 擁有入姓名及機械的安裝地址		
2. Name and address of maker of the appliance 機械製造廠名稱及地址		
3. Type of appliance and nature of power (e.g. Scotch derrick-manual; tower derrick-electric; rail mounted tower-electric) 機械類別及所使用的動力(例如：蘇格蘭式人字起重機 — 人力；塔式人字起重機 — 電力；架設軌道的塔式起重機 — 電力)		
4. Date of manufacture of the appliance 該機械製造日期		
5. Identification number 識別編號	(a) Maker's serial number 製造廠編號	
	(b) Owner's distinguishing mark or number (if any) 擁有人的識別標誌編號(如有此標誌或編號者)	

LALG-F3-1

	(1) Length of jib (metres) 吊臂長度 (以米為單位)	(2) Radius (metres) 半徑 (以米為單位)	(3) Test load (tonnes) 測試時所用負荷 (以公噸為單位)	(4) Safe Working load (tonnes) 安全操作負荷 (以公噸為單位)
6. Safe working load or loads. In the case of a crane with a variable operating radius (including a crane with a derricking jib or with interchangeable jibs of different lengths) the safe working load at various radii of the jib, jibs, trolley or crab must be given; test loads at various radii should be given in column (3) and in the case of a safe working load which has been calculated without the application of a test load "NIL" should be entered in that column.  安全操作負荷 如該起重機係有伸縮性的操作半徑者(包括裝有人字吊臂或有不同長度的吊臂可供調整的起重機)，則須列明吊臂、絞輪或起重滑車在使用各種半徑操作時的安全負荷。測試各種半徑時所用的負荷應填於第(3)欄內，如安全操作負荷並非經過負荷測試計算者，則應在該欄內填「無」字。				
7. In the case of a crane with a derricking jib or jibs the maximum radius at which the jib or jibs may be worked (in metres). 如該起重機係裝有人字吊臂者，則註明在該吊臂伸至最長時的半徑(以米為單位)。				
8. Defects noted and alterations or repairs required before appliance is put into service. If none enter "None" and state whether in safe working order. 註明所發現的毛病及起重機於使用前所需作的修改或修理。如無不妥，則填「無」字並註明是否處於安全操作狀態。				
9. In the case of a crane, state whether the automatic safe load indicator is in good working order. 如該機械為起重機，註明該機的安全負荷自動顯示器是否處於安全操作狀態。				

I hereby certify that on ..... 19..... the appliance described in this certificate was tested and thoroughly examined by me in accordance with the First Schedule and that the above particulars are correct.  
茲證明本人曾於一九.....年.....月.....日依照附表 1 的規定測試及徹底檢驗本證書所指的機械，且上述各項均屬確實無訛。

LALG-F3-2

# Hong Kong - Certification & Inspection



Signature of Registered Professional Engineer .....  
註冊專業工程師簽署

Qualification .....  
註冊資格

Discipline .....  
註冊界別

Name and address of person, company or  
association by whom the person conducting  
the test and examination is employed  
僱用執行此次測試及檢驗的人士、公司  
或機構的姓名或名稱及地址

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，如向擁有人交付證明知有任何要項屬虛假的證明書或作出證明知有任何要項屬虛假的報告，即屬犯罪；一經定罪，可處罰款二十萬元及監禁十二個月。

LALG-F3-3

# Hong Kong

## - Certification & Inspection



Name of owner  
擁有人姓名 .....

.....

Address of installation  
安裝地址 .....

.....

**FORM 5**  
**表格五**

**Factories and Industrial Undertakings (Lifting Appliances and Lifting Gear) Regulations**

**LIFTING APPLIANCES**

**CERTIFICATE OF RESULTS OF THOROUGH**  
**EXAMINATIONS IN THE PRECEDING TWELVE MONTHS**

*Form approved by the Commissioner for Labour for the purposes of regulation 5(1) of the*  
*Factories and Industrial Undertakings (Lifting Appliances and Lifting Gear) Regulations*

**工廠及工業經營(起重機械及起重裝置)規例**

**起重機械在過往十二個月內進行的徹底檢驗結果證明書**

本表格乃由勞工處處長就工廠及工業經營(起重機械及起重裝置)規例第 5(1)條的需要而認可

[reg 5(1)]  
[規例第 5(1)條]

Description of appliance, e.g. type, identification marks, maximum safe working load, etc. 該機械的說明，例如：類別、識別標誌、 最高安全操作負荷等	Date of examination 檢驗日期	Result of examination Enter details of repairs required or defects. If none enter "None" and state whether in safe working order. 檢驗結果，註明所需進行的修理或毛病的詳情 如無不妥，則填「無」字並註明是否處於安全操作狀態
(1)	(2)	(3)

I hereby certify that the appliances described in this certificate was thoroughly examined by me on ..... and that the above particulars are correct.  
茲證明本人曾於 ..... 年 ..... 月 ..... 日 徹底檢驗本證明書所指的起重機，且上述各項均屬確實無誤。

Signature of Registered Professional Engineer .....  
註冊專業工程師簽署

Date of certificate .....  
簽發日期

Qualification .....  
註冊資格

Discipline .....  
註冊界別

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，如向擁有人交付他明知有任何要項屬虛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；一經定罪，可處罰款二十萬元及監禁十二個月。

LALG-F5



# Hong Kong - Survey Report



**Allied Rich Asia Limited 聯發亞洲有限公司**  
Room 529-533, 5/F, Beverly Commercial Centre, 87-125 Chatham Road, Tsim Sha Tsui, Kowloon, Hong Kong  
香港九龍尖沙咀彌敦道 87-125 號百利商業中心 529-533 室

Report No. ARA-20250618

Inspection Form

Date of Inspection: 18 June 2025

Name of Owner: Electrical and Mechanical Services Department

Site Address: Central Ferry Pier No. 3  
Central, Hong Kong  
Location: Roof


Description:

Platform powered by electric with roof car mounted and run on rails fixed on roof travelling.  
Platform suspended by two operating arms with wire drums fixed on the platform, c/w devices for prevention of over running & over-descending of the platform.

Name of Maker: Lalesse B.V. Arnhem Holland  
Serial No.: 960245  
Suspension & hoist wire rope: 4 x 8mm diameter  
Year: 1996(car/1994(platform))  
Details of cradle as follows:  
Maker: Power Climber  
Model: PC-400  
Climber Serial No.: 991043 & 991011  
Life-line: 2 nos. x 16mm diameter  
Platform Size: 2.90m(L) x 0.70m(W) x 1.00m(H)  
Travel Heights of Platform: From G/F. to Roof

Remark: Not in Safe Working Order (wire ropes attached to climber was found rusty – refers to photos in page 2 and 3)

Allied Rich Asia Limited

  
Tse Wing Ning (RP0398760)  
MECHANICAL  
Registered Professional Engineer



**Allied Rich Asia Limited 聯發亞洲有限公司**  
Room 529-533, 5/F, Beverly Commercial Centre, 87-125 Chatham Road, Tsim Sha Tsui, Kowloon, Hong Kong  
香港九龍尖沙咀彌敦道 87-125 號百利商業中心 529-533 室



# Hong Kong

## - General Duties

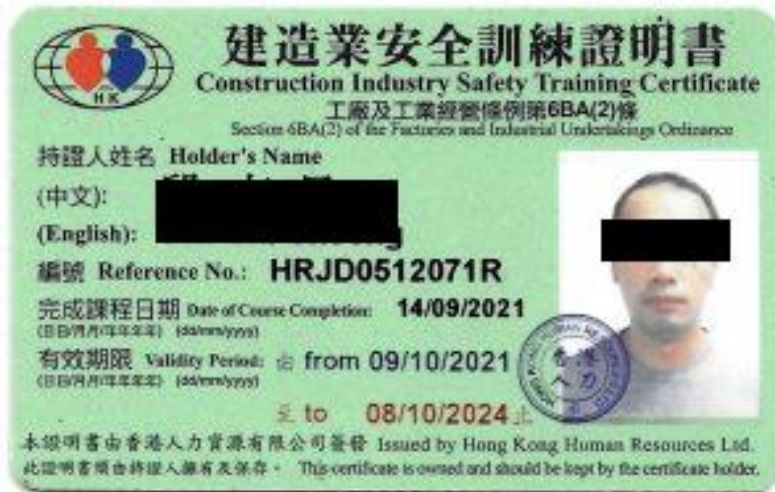


- Good design and construction; of adequate strength
- Made of sound material
- Properly installed or assembled
- Properly maintained
- Adequately and securely supported with every supporting structure being of good construction and adequate strength

# Hong Kong - Personnel Training & Competency



- Mandatory Basic Safety Training (Green Card) – 1 day
- Certificate for Operation of Suspended Working Platform (Yellow Card) – 2 days



# Hong Kong - Personnel Training & Competency



## Certificate for Operation of Suspended Working Platform



- Relevant occupational safety and health legislation
- General knowledge of suspended working platform
- Electrical apparatus necessary for operation
- Safe operation procedures
- Personal protective equipment and fire extinguishers
- Safety in adverse weather conditions
- Emergency procedures
- Analysis of common accidents to improve safety awareness



# Hong Kong - Personnel Training & Competency





# Hong Kong - Key Safety Requirements



- Independent Lifelines
- Safety Devices
- Notice of SWL and max. no. of operators
- Operator Age 18 and above
- Operator with safety harness



# Singapore

## - Legal Requirements



- Workplace Safety and Health Act (WSHA)
- Workplace Safety and Health (Operation of Cranes) Regulations
- Singapore Standard SS 536: 2023 Code of Practice for Safe Use of Mobile Cranes
- Singapore Standard SS 598: 2014 Code of Practice for Suspended Scaffolds (Formerly CP20)
- Singapore Standard SS 617: 2016 Code of Practice for lifting of Persons in Work Platform suspended from Cranes (Formerly CP 63)



# Singapore

## - Certification & Inspection



- Certificate of Fitness (CoF) by Authorised Examiner for Lifting Equipment (AE)
- Detailed Inspection by scaffold supervisors
- Pre-use Check

# Singapore - Permit to Work (PTW) & Risk Management



- Permit to Work system
- Approved Risk Assessments
- Job-specific Fall Prevention Plans
- Safe Work Procedure (SWP)

# Singapore - Personnel Training & Competency



- Risk Management Course
- Multi-skilling (Rigger and Signalman) Course
- Scaffold (“gondola”) supervisors, scaffold erectors and suspended scaffold (“gondola”) riggers

# Singapore - Key Safety Requirements



- Design certified by Professional Engineer
- Approved scaffold contractors
- Qualified work force
- Securely fastened the working platform
- Fall Protection
- Operator Age 18 and above





# Erecting SWP

## Safe Work Method Statement



- Planning
- Implement a fall emergency rescue plan
- Arrival on-site and assess on-site conditions
- Work area set-up
- Environment
- Check weather conditions & prepare
- Housekeeping
- Manual tasks
- Working with powered & non-powered tools
- Pre-inspect system components & assembling the platform
- Install electrical cabling for hoist operations
- Setting-up supports and anchors
- Commission and handover
- Dismantling
- On completion
- Emergency response

<https://safetydocs.safetyculture.com/swms/height-erecting-suspended-powered-scaffolds-swms-10538>

# Erecting SWP Safe Work Method Statement



Company Name:  
Company Address:  
ABN/INZBN:

ERECTING SUSPENDED POWERED SCAFFOLDS SAFE WORK METHOD STATEMENT (SWMS)			
Business Contact:		Phone #:	
Responsible person (for monitoring SWMS and work):		Principal Contractor (PC):	
Signature:		PC Address:	
Date:		PC Phone #:	
Contact Phone #:		Date SWMS provided to PC:	
Job Site Address:			
<b>SITE MANAGEMENT PLAN</b> Is the work associated with a Construction Project? <input type="checkbox"/> Yes <input type="checkbox"/> No <i>If yes - This SWMS must align with requirements of the Site Management Plan in place for the Construction Project.</i>			
<b>THIS WORK ACTIVITY INVOLVES THE FOLLOWING "HIGH-RISK CONSTRUCTION WORK" (HRCW - IDENTIFIED IN THE JOB TASK COLUMN)</b>			
<input type="checkbox"/> Confined spaces	<input type="checkbox"/> Mobile plant movement	<input type="checkbox"/> Demolition of a load-bearing structure	<input type="checkbox"/> Asbestos disturbance
<input type="checkbox"/> Using explosives	<input type="checkbox"/> Diving work	<input type="checkbox"/> Artificial extremes of temperature	<input type="checkbox"/> Tilt-up or pre-cast concrete
<input checked="" type="checkbox"/> Pressurised gas distribution mains or piping chemical, fuel or refrigerant lines energised electrical installations or services			
<input type="checkbox"/> Structures or buildings involving structural alterations or repairs that require temporary support to prevent collapse			
<input checked="" type="checkbox"/> Involves a risk of a person falling from 2m or more, including work on telecommunications towers <input type="checkbox"/> Work in a ceiling space (W.A. Only)			
<input type="checkbox"/> Working at depths greater than 1.5 metres, including tunnels or mines		<input type="checkbox"/> Work in an area that may have a contaminated or flammable atmosphere	
<input type="checkbox"/> Work carried out adjacent to a road, railway or shipping lane, traffic corridor		<input type="checkbox"/> In or near water or other liquid that involves the risk of drowning	
<b>WORKING WITH A RISK OF A FALL OVER 2 METRES.</b> Select the fall from height 'hierarchy of control level' considered when establishing controls:			
<input type="checkbox"/> L 1: Work on the ground or solid construction		<input type="checkbox"/> L 4: Use a fall arrest system e.g., safety harness, catch platforms	
<input type="checkbox"/> L 2: Use a passive fall restraint system e.g., guard rails, scaffolding, EWP		<input type="checkbox"/> L 5: Implement administrative controls e.g., signage, or instruction	
<input type="checkbox"/> L 3: Use a work positioning system e.g., travel restraint, rope access		<input type="checkbox"/> Other?	
More than one of these measures to reduce risk can be used. For example, engineering controls like edge protection can be implemented with administrative controls like training and use of this SWMS, while wearing PPE (non-slip shoes). Please describe why it is not reasonably practicable to use higher-order control measures. E.g. The job is less than 5 minutes on a ladder.			
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ERECTING SUSPENDED POWERED SCAFFOLDS	1	© SafetyCulture All Rights Reserved	ISSUE DATE:
SAFE WORK METHOD STATEMENT			REVISION DATE:
			REVIEW #:
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# Erecting SWP

## Safe Work Method Statement



Company Name:  
Company Address:  
ABN/NZBN:

JOB TASK	HAZARDS	IR	CONTROL MEASURES	RR	RESPONSIBLE PERSON
			INHERENT RISK-RATING (IR) BEFORE CONTROLS - RESIDUAL RISK-RATING (RR) AFTER CONTROLS		
			<ul style="list-style-type: none"> <li>Ensure that footwear is suitable. Snug-fitting shoes/boots with flat, non-slip soles, no loose soles, long laces, soles that are oily, or caked with mud or other contaminants</li> </ul>		
8. Manual tasks	Musculoskeletal Disorder (MSD) injuries	3H	<ul style="list-style-type: none"> <li>Materials/equipment placed as close to the work area as possible</li> <li>Ensure there are adequate workers to perform the task</li> <li>Weight of an object should be known; avoid lifting loads more than 1/4 of your body weight</li> <li>Do not use extreme force to move items</li> <li>Lifted items held close to the body whenever possible:                             <ul style="list-style-type: none"> <li>Keeping knees bent and back straight and lift/unload keeping knees bent</li> </ul> </li> <li>Use team lifts and mechanical means for heavy items</li> <li>Schedule regular breaks and practice job rotation</li> <li>Avoid overreaching, long periods of repetitive movements, awkward and sustained positions, twisting and side-bending</li> <li>Wear leather safety gloves for platform assembly, setting up supports/anchors and operation.</li> </ul>	2M	Supervisor and workers to ensure control measures followed
9. HRCW Working with powered & non-powered tools	<ul style="list-style-type: none"> <li>Electrocution</li> <li>Injury</li> <li>Fire</li> <li>Asphyxiation</li> </ul>	4A	<ul style="list-style-type: none"> <li>Use tools only for the purpose specified by the manufacturer</li> <li>Wear PPE as recommended by the manufacturer</li> <li>Pre-inspect and operate tools following the manufacturer's instructions. If damaged or unsuitable for the task do not use. Take out of service immediately and apply LOTO procedures</li> <li>Tool operations manual is available, read and understood</li> <li>Fire protection equipment accessible</li> <li>Use mechanical ventilation as required</li> <li>Electrical:                             <ul style="list-style-type: none"> <li>All electric power tools and leads are Tested, Tagged and are current</li> <li>Use electrical sockets protected by RCD (safety-switches) or use portable RCD devices</li> <li>Switchboards have appropriately rated circuit breaker</li> <li>Always ensure that the tool is switched off and power isolated before a pre-start check, adjusting, changing set-ups or repairing</li> <li>Do not overload power outlets</li> </ul> </li> <li>Diesel/petrol-powered tools - Do not run a diesel/petrol-powered tools inside a building (e.g. shed), or where ventilation is limited.</li> </ul>	2M	Supervisor and workers to ensure control measures followed
10. Pre-inspect system components	Equipment failure	4A	<ul style="list-style-type: none"> <li>Set up work platform (cradle) as per plan/manufacturer's instructions</li> <li>Construct the stage on the ground or on a solid structure</li> </ul>	2M	Supervisor and workers to ensure

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SAFE WORK METHOD STATEMENT

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# Erecting SWP

## Safe Work Method Statement



Company Name:  
Company Address:  
ABN/INZBN:

JOB TASK	HAZARDS	IR	CONTROL MEASURES	RR	RESPONSIBLE PERSON
			<i>Inherent Risk-Rating (IR) BEFORE CONTROLS - Residual Risk-Rating (RR) AFTER CONTROLS</i>		
	Falling objects	4A	<ul style="list-style-type: none"> <li>• Anchors/tiebacks secured to a structurally sound anchorage on the building or structure</li> <li>• Anchor equipment should not be fastened to the following unless specifically modified to do so:                             <ul style="list-style-type: none"> <li>○ Conduit/cable trays, piping, support racks, vent stacks, scaffolding/supports / suspended platforms, guard rails, handrails, wood trusses (unless specifically designed), gable ends, fascia, overhangs, damaged framing, mobile plant, hoists and areas with sharp edges or protrusions</li> </ul> </li> <li>• Only use items specifically designed as counterweights to counterweight the scaffolding system</li> <li>• Bricks and blocks and other similar construction materials not used as counterweights</li> <li>• Counterweights must be secured fixed to the outrigger beams</li> <li>• Counterweights must not be removed from an outrigger beam until the scaffold is disassembled.</li> </ul>	2M	
13. HRCW Commission & handover	<ul style="list-style-type: none"> <li>• Fall from height</li> <li>• Suspension trauma</li> <li>• Impact injuries</li> <li>• Fatality</li> </ul>	4A	<ul style="list-style-type: none"> <li>• When testing the scaffold, wear a fall arrest harness attached to an independent fall arrest system. Controls followed as in setting up supports and anchors</li> <li>• Platform:                             <ul style="list-style-type: none"> <li>○ Keep the platform level at all times. Restrict the lateral movement of the cradle, e.g. tying off the cradle with rope</li> <li>○ Stop work and lower the platform to the ground during bad weather, e.g. windy conditions</li> <li>○ DO NOT:                                     <ul style="list-style-type: none"> <li>▪ Overreach</li> <li>▪ Climb on handrails</li> </ul> </li> </ul> </li> <li>• Inspect before handover. Items to be checked:                             <ul style="list-style-type: none"> <li>○ Ensure guardrails, mid-rails and toe-boards fitted correctly, and the working deck is non-slip with drainage holes</li> <li>○ Ensure a secondary protective device provided and fitted for each scaffold hoist to operate on a secondary wire rope (in case of failure of the main system)</li> <li>○ Ensure backup attachment point is independent of the main suspension rope attachment</li> <li>○ Connections between components secured</li> <li>○ Access/egress suitable</li> </ul> </li> <li>• Certification provided. Ensure it contains:                             <ul style="list-style-type: none"> <li>○ Name/address of people requiring fall protection</li> <li>○ Name/address of installer</li> <li>○ Location details, time and date</li> </ul> </li> </ul>	2M	Supervisor and workers to ensure control measures followed

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# Discussion & the Way Forward

Philosophy

Certification

Primary Guidance



## ICAM Analysis

