



**INDUSTRIAL SAFETY DIVISION
DEPARTMENT OF OCCUPATIONAL SAFETY AND HEALTH MALAYSIA**

**APPLICATION GUIDE FOR DESIGN VERIFICATION AND ALTERATION
APPROVAL OF LIFTING MACHINERY OTHER THAN LIFT, ESCALATOR AND
WALKALATOR
2025**

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1.0 INTRODUCTION

This application guide is provided as a reference for applicants when submitting an application for design verification and alteration approval for lifting machinery to ensure applicants receive accurate and clear guidance. The application guide stipulates the requirements for design verification and alteration approval for lifting machinery other than lift, escalator and walkalator, come into operation on 1 June 2024.

All power-driven lifting machinery (e.g., electric, diesel, pneumatic, or equivalents) prescribed as a plant requiring certificate of fitness shall have a valid Certificate of Fitness (CF). Every lifting machinery shall obtain design verification from the Industrial Safety Division, Department of Occupational Safety and Health (DOSH) before being constructed, installed or operated.

The application for the registration of lifting machinery can only be submitted after obtaining design verification.

2.0 ENABLER

The Occupational Safety and Health (Plant Requiring Certificate of Fitness) Regulations 2024 are stipulated under the Occupational Safety and Health Act 1994, Section 27B, whereby the Minister may specify any plant for which certificate of fitness is required. These Regulations came into force on **1 June 2024**.

This guide is issued pursuant to Section 27C, Occupational Safety and Health Act 1994, whereby the Director General may grant an approval subject to such terms and conditions as the Director General may impose.

3.0 INTERPRETATION

Pursuant to Occupational Safety and Health (Plant Requiring Certificate of Fitness) Regulations 2024, lifting machinery is prescribed as a plant requiring certificate of fitness. The interpretation of lifting machinery as stated in these regulations means any equipment for lifting, raising, transporting or lowering loads.

4.0 SCOPE

4.1 Scope of Application

Based on the interpretation specified in the Occupational Safety and Health (Plant Requiring Certificate of Fitness) Regulations 2024, lifting machinery other than lift, escalator and walkalator is divided into twelve (12) main categories and types are as listed in **Appendix 1A**:

1. Mobile crane;
2. Tower crane;
3. Quay crane;

4. Overhead travelling crane;
5. Others crane;
6. Goods hoist;
7. Passenger hoist;
8. Suspended access equipment;
9. Launching gantry;
10. Funicular railway;
11. Aerial work platform; and
12. Other lifting machinery.

The interpretation of lifting machinery **is based on the features and functions of the lifting machinery, not solely on the name of the equipment.** Refer to Appendix 1A for the complete list of main categories and types of lifting machinery.

The installation and dismantling of machinery specified in the Seventh Schedule of the Occupational Safety and Health (Plant Requiring Certificate of Fitness) Regulations 2024 shall be carried out by a Competent Person registered with the Department or the origin manufacturer. The origin manufacturer shall obtain one-off installation and dismantling approval from the Director General.

4.2 Non-Application

However the Occupational Safety and Health (Plant Requiring Certificate of Fitness) Regulations 2024 shall not apply to the manual lifting machinery specified in the Third Schedule under the Regulations (refer to Appendix 2). The interpretation of lifting machinery in this Schedule refers to the **specific features and functions of the machinery, not solely on the name of the equipment.**

4.3 Categories of Application Related to Lifting Machinery

a) Design Verification of New Lifting Machinery (Local)

New lifting machinery is manufactured in Malaysia and has never been used.

b) Design Verification of New Lifting Machinery (Import)

New lifting machinery is manufactured outside Malaysia and has never been used.

c) Alteration Approval of Lifting Machinery Design

Application for alteration approval of lifting machinery design shall be made when:

- i) The design that may affect the strength, integrity, or functional capability of any of the lifting machinery; or
- ii) Changes of the safe working load (SWL) for lifting machinery.

d) Design Verification of Used Lifting Machinery

The lifting machinery used is as follows:

- i) Lifting machinery that has been used but has never obtained design verification; or

- ii) New lifting machinery manufactured more than two years prior to the current year. The application for design verification of the lifting machinery is made in the current year.

e) Demo of Lifting Machinery

All newly registered Competent Person or those seeking to extend their scope for lifting machinery shall pass a lifting machinery demo (if required). The purpose of application must be stated in the additional information section of the MySKUD system and submit required documents as listed in Table 1, along with the following:

- i) Design drawings including welding details;
- ii) Inspection Test Plan (ITP);
- iii) Mill certification;
- iv) WPS, WQT, PQR; and
- v) Welder log.

5.0 APPLICATION REQUIREMENTS

5.1 Online System Access

Design verification applications can only be submitted through the MySKUD online system via single sign-on (SSO) through the MyKKP system. Applicants must have a MyKKP account to access MySKUD:

<https://mykkp.dosh.gov.my/myKKP/#/home/log-masuk>

5.2 Applicant Categories

Eligible applicants for lifting machinery design verification include:

- i) Competent Person (Company) registered with the Department; or
- ii) Origin manufacturer for imported lifting machinery; or
- iii) Installers or sole distributors or authorized agents appointed by the origin manufacturer (for imports only). A letter of appointment or confirmation from the origin manufacturer must be attached.

Only Registered Competent Person (Company) may submit an application for the design verification of lifting machinery manufactured in Malaysia. The list and scope of registration for Registered Competent Person (Company) can be checked via <https://mykkp.dosh.gov.my/myKKP/#/home/semakan-fyk>

Only the owner, occupier, or applicant who has obtained design verification is allowed to apply for installation approval (PTI). PTI applications for **portable lifting machinery, only Verification Applicants** who have obtained design verification are allowed to apply for PTI. Refer to **Appendix 1B** for a list of portable lifting machinery. Other parties are not permitted to apply for installation approval.

5.3 Design Compliance with Recognized Standards

Effective 1 June 2024, applicants must ensure that each design verification application for lifting machinery complies with standards recognized by the Department, as specified in the Fourth Schedule of the Occupational Safety and Health (Plant Requiring Certificate of Fitness) Regulations 2024.

5.4 Design Verification Requirements

Design Verification of New Lifting Machinery issued by the department is divided into two types:

a) Model

Design verification is issued for (new) lifting machinery manufactured in the current year. The validity period of the design verification is three (3) years. Registration of machinery using this model verification is only valid for lifting machinery manufactured within the validity period of the design verification.

Example: The date of design verification issuance is March 28, 2025. Therefore, the model manufactured within the period of validity for design verification starts from this date (March 28, 2025) until three (3) years, which is March 27, 2028, only.

b) Serial Number

Design verification is issued for (new) lifting machinery manufactured not less than two (2) years of construction from the current year. The design verification validity period is three (3) years and is only valid for the serial number of that specific machinery. The applicant must provide complete serial number information for the machinery being applied for with every application. The registration of this lifting machinery must be completed within three (3) years from the date the design verification is issued. Note: If less than three (3) years of construction from the current year, it is considered as used lifting machinery.

Example: Lifting machinery (new) manufactured in 2023 or 2024 with a design verification date of March 28, 2025. Therefore, the design verification issued is only valid for that serial number.

5.5 ALTERATION APPROVAL REQUIREMENTS

Approval for alteration must be obtained for alterations to lifting machinery involving the design which may affect the strength, integrity, or functional capability of the lifting machinery and the safe working load, but does not include those as stated in Section 27D(9), OSHA 1994. The owner must ensure that all alteration work is carried out by a Competent Person (Company) the manufacturer, or the origin manufacturer.

Only lifting machinery that already had a Certificate of Fitness (CF) and where the scope of alteration is permitted by the manufacturer or origin manufacturer shall be allowed for the alteration approval application.

Discussion with the Design Approval Section, Industrial Safety Division (BKI), DOSH Headquarters is recommended before this application is submitted. The applicant must provide detailed, clear explanation, justification, and other additional information besides the documents mentioned in paragraph 7.2.

Lifting machinery that has obtained alteration approval must obtain a valid Certificate of Fitness (CF) before being operated.

Alteration approval must be obtained for lifting machinery that is to be relocated and manufactured as a permanent structure and based on the original installation location (even if there is no change in SWL), such as an overhead travelling crane and dock crane.

Category of Applicants for Alteration Approval:

- i) Origin manufacturer performing the alteration work. An appointment letter from the owner must be attached, stating the scope of alteration work; or
- ii) Competent Person (Company) Manufacturer of Lifting Machinery with the relevant lifting machinery scope performing the alteration. An appointment letter from the owner must be attached, clearly stating the appointment scope and alteration work; or
- iii) Competent Person (company) Installer of Lifting Machinery appointed by the origin manufacturer. An appointment letter from the owner to the installer must be attached, along with a letter from the owner to the origin manufacturer stating the scope of the alteration work.

5.6 DESIGN VERIFICATION REQUIREMENTS FOR USED LIFTING MACHINERY

Discussion with the Design Approval Section, Industrial Safety Division, DOSH Headquarters must be conducted beforehand, before used lifting machinery is purchased and brought into Malaysia, by submitting documents and background information on the lifting machinery, including a declaration letter from the Royal Malaysian Customs, maintenance records, inspection records, and tests that have been carried out by the previous owner, for the purpose of preliminary assessment before an application is submitted.

Applicants must provide detailed explanations and justifications along with any additional relevant information during this discussion, in addition to the documents listed in Table 1 in this application guide.

The design verification is allowed only for used imported portable lifting machinery that was manufactured within five (5) years of the current year.

The design verification is not allowed for the following categories of used imported lifting machinery such as tower crane, overhead travelling crane, goods hoist, passenger hoist, suspended access equipment and launching gantry.

The application for design verification for used lifting machinery must be applied based on the serial number and the design verification validity period is three (3) years and valid for that serial number.

Example: For used lifting machinery that was manufactured in the year 2020 and the date of the design verification application is February 20, 2025. Therefore, the design verification issued is only valid for the serial number of that machinery. The registration of this lifting machinery must be completed within three (3) years from the date the design verification is issued.

5.7 RE-APPLICATION

If a previous application has been **REJECTED**, the applicant must resubmit using the same reference number through the **Resubmission button** within the MySKUD system.

6.0 Instruction for Filling Out Application Details

FIELD	EXPLANATION
1) Applicant Name & Address	As registered in the MyKKP system under the workplace name.
2) Technical or Design Staff	Name of the technical or design personnel responsible for the application.
3) Application Category	Select local new, imported new, alteration, or used import.
4) Lifting Machinery Category	Select the-right category and type of lifting machinery.
5) Manufacturer / Origin Manufacturer	Enter the name and details of the manufacturer or origin manufacturer. For lifting machinery manufactured in Malaysia, select the listed Competent Person.
6) Owner Name	The person or entity that owns the lifting machinery.
7) Occupier Name	In the context of this guide, the individual operating the lifting machinery. Defined under OSHA 1994 as means a person who has the management or control of the place of work;
8) Installation Location	The address where the lifting machinery is installed (applies to altered or used machinery). For new machinery, state as storage or use ' – '
9) Serial Number	The serial number provided by the manufacturer or the origin manufacturer for the lifting machinery system being applied for. Limited to 50 characters per application, separated by a comma (,). The serial

FIELD	EXPLANATION
	<p>number must be filled in COMPLETELY (for applications under paragraphs 5.4(b) and 5.6). Example of a complete serial number entry: MZ2024082901,MZ2024082902,MZ2024082903</p>
10) Designer	<p>The name of the company that designed the lifting machinery system being applied for. Click the 'same as manufacturer name' button if the designer and the origin manufacturer are the same.</p>
11) Model	<p>The model of the lifting machinery system being applied for refers to the unique identity of the entire lifting machinery (referring to the technical specifications) and not the model of the lifting mechanism, i.e., hoist/winch/motor/hydraulic/pneumatic. The model name is given by the manufacturer or the origin manufacturer for the lifting machinery system being applied for. Please fill in completely. Examples: PROTON X70 Executive, PERODUA MyVi 1.3V"</p>
12) Year of Manufacture	<p>The 'Year of Manufacture' is the year the lifting machinery was completely constructed. Please state the current year if the machinery is still in the design process and has not yet been constructed (This is only applicable to new lifting machinery made in Malaysia only)</p>
13) Safe Working Load	<p>The maximum load capacity in kilograms (SWL).</p>
14) Power	<p>The maximum power of the lifting machinery in kilowatts (kW).</p>
15) Design Drawing	<p>List of every design drawing number that is attached. The drawing number must be the same as the design drawing attached for the lifting machinery being applied for.</p>
16) Recognized Standard	<p>The Recognized Standard or design code utilized by the designer or manufacturer or origin manufacturer to design and build the lifting machinery system in accordance with the standard recognized by the Department.</p> <p>The applicant may refer to the manufacturer or origin manufacturer or the manufacturer's certificate issued by the manufacturer</p>
17) Load Test	<p>Fill in the load test value according to the recognized standard or origin manufacturer recommendation.</p>
18) Safety Devices	<p>List of all safety devices and their functions present in the applied lifting machinery.</p>
19) PMA Number	<p>The Certificate of Fitness (CF) number for the lifting machinery that has been issued by the Department (for alteration approval applications)</p>

FIELD	EXPLANATION
20) Details and Justification	Provide a clear and detailed explanation and justification for alteration approval applications.
21) Other Additional Information	Any other information to clarify the purpose of the application.

7.0 SUPPORTING DOCUMENTS

7.1 Supporting Documents for Design Verification (New)

Supporting documents are those uploaded into the MySKUD system for the purpose of design verification and alteration approval to lifting machinery. Original documents from the manufacturer must be clear. Applicants are reminded to ensure that each supporting document attached is translated into Malay or English and uploaded to the appropriate folder. The required documents vary depending on the type of machinery, as follows:

(A) Crane, hoist, suspended access platform, launching gantry, funicular railway and aerial working platform;

- 1) Design drawings;
- 2) Design calculations using the latest edition of recognized standards;
- 3) Catalogue or technical specifications for mass production;
- 4) Load charts for mobile cranes, tower cranes, and aerial work platforms;
- 5) Complete particulars of safety features according to recognized standards; and
- 6) **Where the crane, hoist, suspended access platform, launching gantry, funicular railway and aerial working platform are imported -**
 - i. Type examination certificate for the system and reports verified by an authorized inspection body;
 - ii. Manufacturer's test certificate; and
 - iii. Manufacturer's certificate issued by the manufacturer; and
- 7) Wire rope or chain test certificate, if applicable
- 8) Other supporting documents

(B) Lifting machinery other than lift, escalator, walkalator, crane, hoist, suspended access platform, launching gantry, funicular railway and aerial working platform

- 1) Design drawings;
- 2) Design calculations using the latest edition of recognized standards;
- 3) Catalogue or technical specifications for mass production;
- 4) Load charts for mobile crane, tower crane and aerial work platform;
- 5) Complete particulars of safety features according to recognized standards; and
- 6) For imported lifting machinery:
 - i. Test certificate by manufacturer; and

- ii. Manufacturer's certificate issued by the manufacturer.
- 7) Wire rope or chain test certificate, if applicable.
- 8) Other supporting documents

The information required for each supporting document is as stated in Table 1:

Table 1: Supporting Documents for Lifting Machinery Applications

No.	Document Folder	Explanatory Notes
1.	Design drawing	<ul style="list-style-type: none"> • Drawings in landscape orientation and clear; • Contains the title and drawing number, machinery model, manufacturer's name and details, SWL, maximum power, lifting height and speed, wire rope or chain size and specifications, lifting mechanism specifications, design code, construction materials and important technical information for the lifting machinery requested
2.	Design calculations	<ul style="list-style-type: none"> • Contains information on the lifting machinery model and the recognized standards referred to for the design calculation; • Design calculation by the technical officer of the Manufacturer or Origin Manufacturer is mandatory for new machinery. Design calculation of the lifting machinery support system by a certified professional engineer (PEPC) shall be included as required; • Design calculation for used machinery by the technical officer of the manufacturer or origin manufacturer or a certified professional engineer (PEPC) or a Competent Person of the Company applying for design verification or an Authorized Inspecting Body (AIB) depending on the category of application; • The verification shall bear the signature, name and position of the technical officer.
3.	Catalog or technical specifications	It contains the manufacturer's name and details, model information, SWL, maximum power, lifting height and speed and important technical information for the requested lifting machinery.
4.	Load chart	For mobile cranes, tower cranes and aerial work platforms
5.	Machinery safety features	A summary in the form of a table that lists all the safety features available on the machine, complete with the function of each one.

No.	Document Folder	Explanatory Notes
6.	Type inspection certificate for systems and reports (import only)	<p>Lifting machinery system certificates and reports verified by an authorized inspecting body (AIB) contain the following:</p> <ul style="list-style-type: none"> • <i>Standards and requirements (recognised standards);</i> • <i>Manufacturer information;</i> • <i>Specifications, technical data;</i> • <i>Description of machine;</i> • <i>Examinations and tests;</i> • <i>Results;</i> • <i>Conclusions;</i> • <i>Date of examination;</i> • <i>Validity of the certificate.</i> <p><i>A conformity test report, inspection report or equivalent type of inspection of the system are also accepted provided it contains the information above and is verified by AIB. Provided that the calculations and design must be reviewed together.</i></p>
7.	Test certificate by manufacturer (lifting mechanism)	<p>Refers to the lifting mechanism /winch /motor /hydraulic /pneumatic test certificate used in the lifting machinery system;</p> <p>At least contains information on the model, capacity and lifting mechanism as well as recognized test standards;</p> <p>Lifting mechanisms manufactured less than 5 years ago are currently considered new.</p>
8.	Manufacturer's certificate (import only)	<p>Certificate issued by the manufacturer containing details of the machinery such as type, SWL, model, year of manufacture, design code, serial no. and manufacturer information; or</p> <p>A Declaration of conformity is also accepted provided it contains the information above.</p> <p>A manufacturer's certificate must be attached to all serial numbers applied for if the machinery is not applied for in the current year.</p>
9.	Wire rope/chain test certificate	<p>The certificate must be from the manufacturer of the wire rope/chain and contain technical details of the wire rope (including rope diameter, construction, minimum breaking load/minimum breaking force, length etc.), year of manufacturer and manufacturer information. Wire rope/chain manufactured less than the current year is considered new.</p>

No.	Document Folder	Explanatory Notes
10.	Manufacturer's appointment letter (import only)	<p>A letter issued by the manufacturer to the installer or supplier or sole distributor or authorized agent appointed by the manufacturer;</p> <p>This letter should clearly state the responsibilities and scope of the appointment (supply or installation or both);</p> <p>It should contain at least the following information:</p> <ul style="list-style-type: none"> • Company/PIC contact information; • PIC name and signature; • Company date and stamp
11.	Previous usage record (used lifting machinery only)	Record of use of the lifting machinery by the previous owner and at least three (3) records of use
12.	Records verifying that the lifting machinery has never suffered from any deterioration (used lifting machinery only)	<ul style="list-style-type: none"> • Maintenance records of the lifting machinery; or • Repair records of the lifting machinery; or • Verification of the status of the used machinery from the previous owner or sole dealer or authorized distributor or agent appointed by the origin manufacturer of the lifting machinery
13.	Integrity report (used lifting machinery only)	Integrity report by an authorized inspecting body according to the prescribed format (Refer to Appendix 3)
14.	Manufacturer data report (used lifting machinery only)	Product quality control documents by the manufacturer such as factory acceptance test report (FAT) or manufacturing data report (MDR) or confirmation of the status of the used lifting machinery from the manufacturer
15.	Import documents	Documents from the Royal Malaysian Customs Department such as Form K1, where the particulars and year of manufacture must be stated. Form K1 must be attached for used lifting machinery. For new imported plant design verification applications, other relevant documents may be attached as confirmation that the plant is new.
16.	Meeting minutes (used lifting machinery only)	Meeting minutes verified by the Department after the discussion is conducted.
17.	Procedures for the alteration work to be carried out	Procedure for the scope of alteration works to be carried out on the lifting machinery plant being applied for

7.2 Supporting Documents for Alteration Approval

Supporting documents required for alteration approval to be uploaded in the MySKUD system include:

- 1) Design drawings of the altered parts along with details or catalogs (where applicable);
- 2) Design calculations of the altered parts using the latest edition of recognized standard;
- 3) Copy of the approved original design drawings;
- 4) Copy of the original approved design/verification letter;
- 5) Appointment letter from the owner for the Competent Person conducting the alteration including the scope of appointment;
- 6) Work procedure for the alteration process;
- 7) Material certificates or finished component certificates relevant to the alteration;and
- 8) Any other required supporting documents.

7.3 Supporting Documents for Design Verification (Used)

Supporting documents for the design verification of used lifting machinery are as follows:

(A) Crane, hoist, suspended access platform, launching gantry, funicular railway and aerial working platform:

- 1) Design drawings;
- 2) Design calculations using the latest recognized standard edition;
- 3) Technical catalog or mass production specifications;
- 4) Load chart (for mobile cranes, tower cranes, and aerial work platforms);
- 5) Complete safety feature details as per recognized standards;
- 6) Manufacturer's test certificate (for lifting mechanisms);
- 7) Wire rope/chain test certificate;
- 8) Verified meeting minutes;
- 9) Usage history records;
- 10) Records verifying that the plant has never experienced deterioration;
- 11) Integrity report certified by an authorized inspecting body;
- 12) Remaining life assessment certified by an authorized inspecting body;
- 13) Manufacturer's data report; and
- 14) Import documents

(B) Lifting machinery other than lift, escalator, walkalator, crane, hoist, suspended access platform, launching gantry, funicular railway and aerial working platform:

- 1) Design drawings;
- 2) Design calculations using the latest recognized standard edition;
- 3) Technical catalog or mass production specifications;
- 4) Load chart (for mobile cranes, tower cranes, and aerial work platforms);

- 5) Complete safety feature details as per recognized standards;
- 6) Manufacturer's test certificate (for lifting mechanisms);
- 7) Wire rope/chain test certificate;
- 8) Verified meeting minutes;
- 9) Usage history records;
- 10) Records verifying that the plant has never experienced deterioration;
- 11) Integrity report certified by an authorized inspecting body;
- 12) Remaining life assessment certified by an authorized inspecting body;
- 13) Manufacturer's data report; and
- 14) Import documents.

The list of attachments related to applications for design verification and alteration of lifting machinery is as stated in **Table 2**:

Table 2: Attachments Related to Applications for Design Verification and Alteration
Approval of Lifting Machinery

LIST OF APPENDIX	EXPLANATORY NOTES
Appendix 1A	Categories of Lifting Machinery
Appendix 1B	Portable Lifting Machinery
Appendix 2	Non-application of Occupational Safety and Health (Plant Requiring Certificate of Fitness) Regulations 2024 (Lifting Machinery)
Appendix 3	Integrity Report Format
Appendix 4	List of authorized inspecting bodies listed in the First Schedule

8.0 INFORMATION

The Department reserves the right to reject application or withdraw design verification and alteration approval at any time if it is found that:

- a) Fails to comply with or violates any of the terms and conditions stipulated by the Director General based on Section 27C(3), Occupational Safety and Health Act 1994 as stated in the design verification letter; or
- b) Fails to comply with or violates any of the terms and conditions stipulated by the Director General under Regulation 11(1), Occupational Safety and Health (Plant Requiring Certificate of Fitness) Regulations 2024 for alteration approval; or
- c) Documents and information provided in the application are falsified; or
- d) Any other conditions issued by DOSH from time to time are violated.

9.0 FEES

The processing fee for design verification depends on the category and type of lifting machinery. Please refer to the Sixth Schedule of the Occupational Safety and Health (Plant Requiring Certificate of Fitness) Regulations 2024.

No.	Machinery Category	FEES (RM)
1.	Crane other than mobile crane, tower crane and quay crane but including overhead travelling crane	300
2.	Hoist	300
3.	Suspended access equipment	500
4.	Mobile crane	500
5.	Tower crane	1000
6.	Quay crane	1000
7.	Launching gantry	1500
8.	Aerial working platforms	150
9.	Funicular railway	2000
10.	Other lifting machinery	300

The processing fee for alteration of lifting machinery design is RM 300 for all categories and types of lifting machinery.

Any fee that has been paid for any application is non-refundable.

10.0 CLIENT CHARTER

Applications submitted with complete documents will be processed within 15 working days from the date the application is received.

**Lifting Machinery Unit
Industrial Safety Division
Department of Occupational Safety and Health**

Reference Update: 20/11/2025

Categories of Lifting Machinery

No	Category	Types of Lifting Machinery	Explanation
1	Mobile Crane	Crawler Crane	-
		Mobile Crane	
2	Tower Crane	Kren Menara (Tower Crane)	Hammerhead, luffing or topless type
		Derrick Crane	
		Pedestal Crane	
3	Quay crane	Quayside Container Crane	At the pier and there is a permanent runway
		Rail Mounted Quay Crane (RMQC)	
		Rubber Tired Gantry Crane (RTG) (landasan kekal)	
		Rail Mounted Gantry Crane (RMGC)	
		Wharf Crane (landasan kekal)	
		Rail Portal Crane	
4	Overhead Travelling Crane	Overhead Travelling Crane (OTC)	Single girder OTC, Double girder OTC, underhung
		Monorail Crane	Including monorail SWL < 4T
5	Other crane	Gantry Crane	Apart from the pier and no permanent runway
		Suspension Jib Material Hoist System	-
		Jib Crane	-
		Rubber Tired Gantry (RTG) Crane	At the pier but no permanent runway

No	Category		Types of Lifting Machinery	Explanation
5	Crane		Portal Crane	At the pier but no permanent runway (fixed/portable type)
			Straddle Carrier Crane	-
			Sideloader	For loading and unloading containers and cargo
			Truck Mounted Crane	Cranes that are mounted onto a standard truck chassis. Also known as truck loader cranes
			Auger Crane (with telescopic boom)	Equipped with a mechanical means to raise or lower the load with a hook
			Injection Type Piling Machine (with telescopic boom)	Only applicable to the telescopic boom type.
			Boring Rig (with telescopic boom)	Only applicable to the telescopic boom type.
			Pipe Layer	-
			Strand Jack with Gantry System	-
			Spider Crane (with telescopic boom)	Only applicable to the telescopic boom type.
			Mini/ Baby Crane (for dismantle derrick crane)	Crane that is used for dismantle derrick crane
			Rail Mounted Crane	Cranes that are fitted on locomotives or wagons for rail use
Wireline Mast	-			
6	Lifting objects		Goods Hoist	Used to raise and lower objects. Designed in addition to EN81-31 standard
			Material Hoist	Used to raise and lower objects
			Dumbwaiter	

No	Category		Types of Lifting Machinery	Explanation
			Lif Barang (Goods Lift)	<i>Lifts for the transport of goods only (standard EN81-31)</i>
7	Passenger lift		Passenger Hoist	Used to raise and lower people or, people and things
			Mast Climbing Work Platform (MCWP)	
			Vertical Lifting Platform (VLP)	Passenger lifting only. Designed to code EN81-41. Contract speed <0.15 m/s or lifting mechanism is using <i>rack & pinion</i> . Contoh: <i>trapezoidal screw & nut</i>)
8	Hanging Access Equipment		False car	Vertically movable work platform
			Temporary Suspended Platform (gondola)	
			Building Maintenance Unit	-
			Maintenance Cage	-
9	Launching Gantry		Launching Gantry	Including beam launching
10	Funicular railways		Funicular railways	-
11	Aerial work platforms		Mobile Elevating Work Platform (MEWP) (self propelled)	- To raise people to work in high places - Scissor lifts designed to lift people working at heights also fall under the MEWP category.
			Mobile Elevating Work Platform (MEWP) (telescopic boom lift, mobile aerial platform, aerial working platform)	To raise people to work at heights mounted on trucks

No	Category		Types of Lifting Machinery	Explanation
			Elevating Work Platform	Example: Aircraft refuelling hydrant dispenser/ aviation refuelling tankers which involved operator
12	Other Lifting Machinery		Stair Lift	Contract speed <0.15 m/s
			-	
Mechanical Car Park System (platform only)			Lift the car only (stacker/ puzzle system)	
Car Body Lifter			-	
Lifting Jack			Permanent type & portable type	
Strand Jack			-	
Column Lifter			Permanent type	
Mobile Lifter			Portable type	
Post Lift			For lifting vehicles (post type)	
Scissor Lift			Scissor lift for lifting goods or cargo only	
Table Lifter			For lifting goods or cargo only	
Vehicle Scissor Lift			For lifting vehicles (scissor type)	
Lifter			For lifting goods or cargo with a cage or platform. Using mechanism such as chain or belt or rope or hydraulic	
Post Lift Platform				
Cargo Lifter				
Fixed Hoist			Hoist or winch mounted onto the fixed structure. This includes chain hoist installed for caisson	
Chain Hoist				
Air Hoist (>500kg)				
Telescopic Mast	-			

No	Category		Types of Lifting Machinery	Explanation
			Main Deck Loader	-
			Lower Deck Loader	-
			Cable Car	-
			Amusement Park Rides (Category I)	-

Portable Lifting Machinery

Portable lifting machinery is a plant which operates in portable form without being dismantled.

Key characteristics

- **Portability:** Plant designed to be easily moved elsewhere without being dismantled at the installation site; and
- **Mobility:** Can be moved by hand or with minimal assistance or transported from one location to another; and
- **Not Permanently Installed:** Plant is not permanently fixed to any structure or building structure.

Portable Lifting Machinery

- Crawler Crane
- Mobile Crane
- Gantry Crane (wheeled)
- Jib Crane (wheeled)
- Rubber Tired Gantry Crane (wheeled, without runway)
- Portal Crane (wheeled)
- Sideloader
- Truck Mounted Crane
- Auger Crane (with telescopic boom)
- Injection Type Piling Machine (with telescopic boom)
- Boring Rig (with telescopic boom)
- Pipe Layer
- Spider Crane Machine (with telescopic boom)
- Rail Mounted Crane
- Mobile Elevating Work Platform
- Elevating Work Platform
- Lifting Jack (wheeled)
- Mobile Lifter
- Scissor Lift (wheeled)
- Table Lifter (wheeled)
- Main Deck Loader
- Lower Deck Loader
- Amusement Park Rides (rides without involving any opening or installation work)

Note: Not limited to the examples mentioned above.

Appendix 2

Non-application of Occupational Safety and Health (Plant Requiring Certificate of Fitness) Regulations 2024 (Lifting Machinery)

No.	Type	Example
1	Lifting machinery for material handling equipment	<ul style="list-style-type: none"> i. Material Conveyor ii. Forklift/ Dumper/ Stacker/ Robotic Arm
2	Lifting machinery used for the purpose of drilling or digging holes in the ground or to make wells such as drilling rigs or boring rigs.	<ul style="list-style-type: none"> i. Auger Crane (without telescopic boom) ii. Boring Rig/ Drilling Rig
3	Lifting machinery used to drive piles or bore piles into the ground, to construct pier, bridge, dam, and other pier-supported structures as part of the permanent foundation of a building or other structure mounted on a chain wheel .	<ul style="list-style-type: none"> i. Pilling Machine (Mounted on Crawler Truck) ii. Boring Rig/ Drilling Rig (Mounted on Crawler Truck)
4	Lifting machinery, which is the winch installed on a vehicle.	<ul style="list-style-type: none"> i. Tow truck ii. Slipway Winch/ Boat Winch
5	Lifting machinery installed as a dock leveler, which is a permanent equipment placed at the dock which is used to raise or lower the dock level.	<ul style="list-style-type: none"> i. Dock Leveller
6	Lifting machinery installed as ergonomic lifting aid equipment to help workers lift, move the position of goods or loads that are too heavy to be done manually such as manipulators.	<ul style="list-style-type: none"> i. Manipulator ii. Ceiling Hoist (a lifting device installed on the ceiling to assist individuals with mobility challenges in transfers)
7	Lifting machinery which is used as a platform or elevated walkway which provides a walkway such as a walkway tower.	<ul style="list-style-type: none"> i. Gangway Tower ii. Drawbridge
8	Lifting machinery, which is a vertical conveyor, used to move or transport a load in a predetermined route and has a point of load and unloading the load, at a fixed or selective position.	<ul style="list-style-type: none"> i. Vertical Conveyor (jenis conveyor sahaja dan tidak termasuk jenis lifter)
9	Lifting machinery which is mechanical equipment permanently installed at the back of a vehicle and designed to handle loads from the ground level or loading docks to the floor level of the vehicle, or vice versa.	<ul style="list-style-type: none"> i. Tail Lift ii. Grabber Truck
10	Lifting machinery which becomes an equipment with automatic storage and retrieval system.	<ul style="list-style-type: none"> i. Automated Storage and Retrieval System (ASRS) ii. Fully Automated Mechanical Car Park System
11	Lifting machinery, specifically a crane , whose lifting height does not exceed nine meters and whose	<ul style="list-style-type: none"> i. Monkey Hoist

	maximum working load does not exceed eighty kilograms.	
12	Lifting machinery that uses air or pneumatics and whose maximum working load does not exceed five hundred kilograms.	<ul style="list-style-type: none">i. Air Hoist SWL<500kgii. Pneumatic Hoistiii. Vacuum Lifter

INTEGRITY REPORT FORMAT

- 1) The integrity report for lifting machinery must be certified by an **Authorized Inspecting Body** recognized by the Department as listed in **Appendix 4**.
- 2) The following is the format for the integrity report containing the information:
 - i. Background of the lifting machinery submitted for used design verification;
 - ii. Scope of work;
 - iii. Type of tests conducted, such as safety device function test at safe working load and maximum load tests according to the original specifications or overload tests by the manufacturer;
 - iv. Test results;
 - v. Comments and recommendations;
 - vi. Corrective actions taken;
 - vii. Clear images showing the condition of the machinery, serial number plate, and usage meter reading;
 - viii. Certificates of tests based on the scope of work;
 - ix. Confirmation of remaining life cycle for the lifting machinery;
 - x. Summary/conclusion of the test. The machinery should be certified **fit to use** or **fit for service** by an authorized inspecting body;
 - xi. Confirmation of the preparation of the integrity report (including the examiner's name, contact number, examiner's signature, address, and company stamp).

** Scope of work:*

- i. *Provision of Third Party Inspection Services (Condition Survey) as per DOSH Requirement. To conduct full supervision during the integrity inspection in accordance to approved Method Statement but not limited to:*
 - a) *Conduct visual inspection and report*
 - b) *Witness functional test, load test & overload test*
 - c) *Witness Non-destructive test (NDT)*
 - d) *Manufacturer Data Report review and endorsement (if any)*
 - e) *Preparation and issuance of Inspection Report*
 - f) *Progress meeting with DOSH Putrajaya (if required)*
- ii. *Provision of Material Non-Destructive Testing (NDT) Services (which applicable with minimum two (2) tests):*
 - a) *Ultrasonic Testing Thickness Measurement (UTTM)*
 - b) *Positive Material Identification (PMI)*
 - c) *Hardness Test*
 - d) *Magnetic Particle Inspection (MPI)*
 - e) *Preparation of NDT report*

<https://dosh.gov.my/wp-content/uploads/2025/02/Badan-Berkuasa-Memeriksa.pdf>

Revision reference: 20/11/2025

LIST OF AUTHORIZED INSPECTING BODY LISTED IN THE FIRST SCHEDULE

1. All members of the Vereinigung der Technischen Überwachungs- Vereine e.V
2. Apave SA, France
3. Apave TIV Malaysia Sdn Bhd
4. Associated Offices Technical Committee, Manchester 3, Great Britain
5. Association des Industriels de Belgique (A.I.B), Brussels, Belgium
6. Badan pemeriksaan yang diberi kuasa yang disenaraikan di bawah Kesatuan Eropah untuk menjalankan penilaian pematuhan mengikut Council Directive
7. Bataafse Internationale Petroleum Maatschappij NV., Holland
8. British Engineering Services Limited
9. Bureau Veritas International Register of Shipping, Paris
10. C & P SR
11. DNV GL AS
12. HSB Inspection Quality Limited, United Kingdom
13. HSB Of Connecticut, U.S.A
14. International Business & Mercantile Reassurance Company
15. Intertek Testing Services (Japan) K.K
16. Japan Boiler Association, Tokyo
17. Japan Inspection Company Ltd., Tokyo
18. Kiwa Sweden AB, Sweden
19. Koatsugase Hoan Kyokai (KHK), Japan
20. LRQA VERIFICATION LIMITED, London
21. Moody International Ltd. (M.M.I), United Kingdom
22. New Zealand Marine Department
23. Nippon Kaiji Kyokai, Japan
24. OneCis Insurance Company, USA
25. Plant Safety Limited, United Kingdom
26. Registro Italiano Navale (RINA), Italy
27. S.G.S Far East Ltd
28. Schweizerischer Verein Fur Technische Inspektionen (SVTI)
29. Shanghai Institute of Special Equipment Inspection and Technical Research, Shanghai, People Republic of China
30. SIRIM QAS International Sdn. Bhd. Malaysia
31. Societe Generale de Surveillance
32. Sticing Independent Inspectors Pool, Holland (Shell Group of Companies)
33. Technical Standards and Safety Authority, Ontario, Canada
34. The Royal Danish Boiler Inspection Department
35. TUV Industrie Service GmbH, TUV Rheinland Group, Cologne
36. TUV Suddeutschland Group, Munich
37. Velosi Certification Bureau Limited, United Kingdom
38. Vincotte International, Belgium
39. Zurich Risk Services, United Kingdom