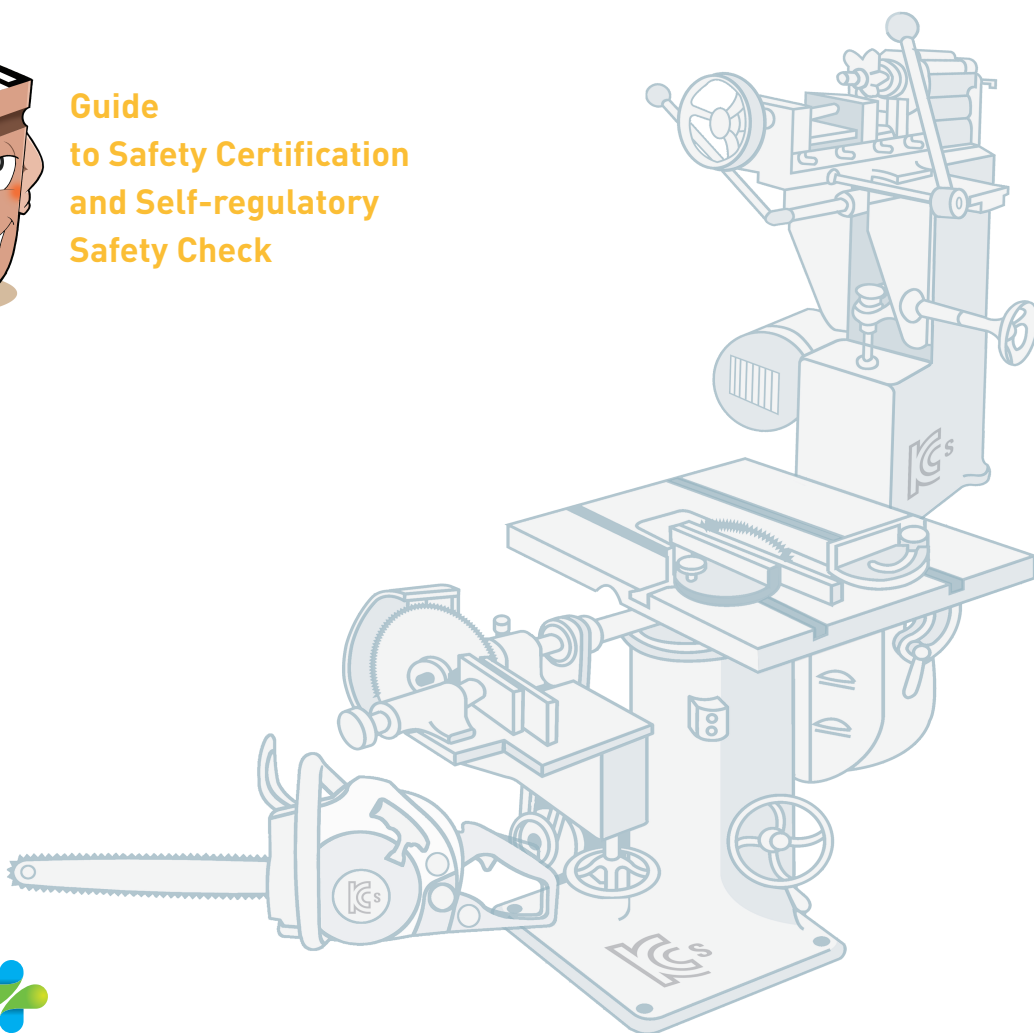


To prevent
occupational accidents


Safety Certification Guide



Guide
to Safety Certification
and Self-regulatory
Safety Check





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1 Safety Certification

1 Safety Certification

- Safety certification is a mandatory system for Hazardous machines to affix  mark on the machines in case the machines meet requirements stipulated in all applicable regulations.
- It shall be achieved through Korean safety certification institutions designated by the Ministry of Employment and Labor (MOEL).
To permit the use of a  mark on a product, proof that the product meets the relevant requirements must be documented.

2 Declaration of Self-regulatory Safety Check

- It shall be achieved by a company-internal self-certification process. Manufacturers or importers shall indicate that products conform to all safety requirements set out in the Notification of MOEL.
- And submit documents to MOEL.
In this case, documents mean instruction manual and materials showing conformity with all safety requirements such as test report, etc.



3

Safety Certification Assessment

Documentary assessment

To assess Technical documentation providing information on design, manufacture and parts of the applied product which is drawn up by applicants.

Technical capability & production system assessment

To assess Technical capability & Production system of applied company

*Objects under Individual products assessment, such as Cranes, Lifts, Pressure Vessels will be exempted from Technical capability & Production system assessment.

Product assessment

To assess safety performance and function of applied products

01 Individual product assessment: all the number of applied products should be subject to assessment.

—
I.e.) Lifts (excluding ones for moving), Cranes (excluding Hoists or Cranes fitted on vehicles), Pressure Vessels, Gondola lifts (excluding seat-type gondola lifts)

02 Product type assessment: Products manufactured for the first time should be subject to assessment by type

—
I.e.) Presses, Shearing/press brake, Hoists, Cranes fitted on vehicles, Rollers, Lifts (for moving only), Injection moulding machines, mobile elevated work platforms, Gondola lifts (Seat-type gondola lifts only)

Surveillance

To confirm whether the certified products and technical capability & production system are satisfied with all applied requirements.

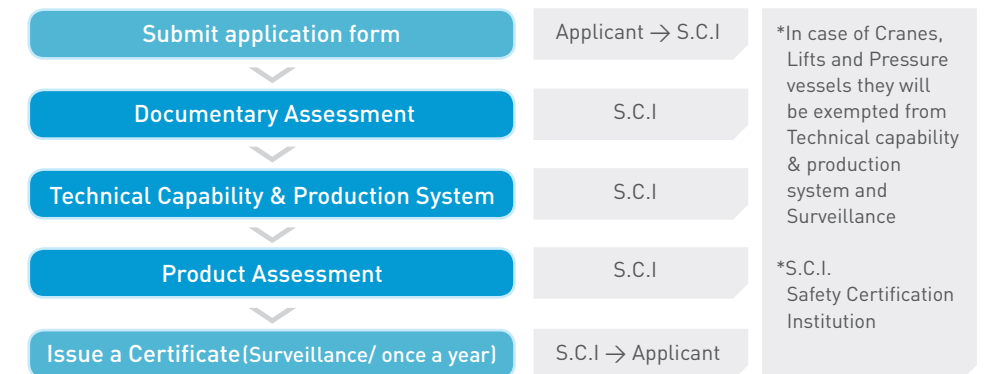
*Only Applied to machines or equipments which get product type assessment by manufacturers

*Period of surveillance : once a year (twice a year under the condition of well compliance with the rules or regulations of safety certification)

4

Procedure for mark

Safety Certification (Article 34 of the Act)



Declaration of Self-regulatory Safety Check (Article 35 of the Act)



5

Process Period

Division		Due Date
Safety Certification	Documentary Assessment	Within 15 days from the date of application (Overseas: within 30 days)
	Technical Capability & Production System	Within 30 days from the date of application (Overseas: within 45 days)
	Product Assessment	Individual product assessment - Within 15 days from the date of application Product assessment by type - Within 30 days from the date of application
Declaration of Self-regulatory Safety Check		Within 15 days from the date of application

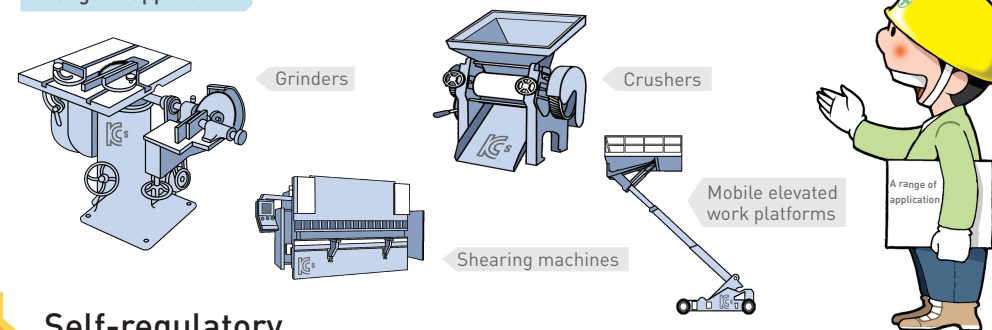
2 Items and Scope

06

1 Safety certification

Items	Scope
Cranes	<ul style="list-style-type: none"> Cranes driven by power including hoist with rated load 0.5 ton or more. Mobile cranes ruled by the Construction Management Act are excluded
Pressure vessels	<ul style="list-style-type: none"> Pressure vessel, served as containing or transporting the fluid in chemical process, or as handling an Air or Nitrogen, shall be true only if it is deemed for design pressure as gauge pressure to exceed 0.2 MPa(2 kgf/cm²). But Pressure Vessel served as the dimension of the inner diameter, width, height, and cross-section length of the vessel is no bigger than 150mm, regardless of length or pressure of the vessel shall be excluded.
Lifts	<ul style="list-style-type: none"> Lifts with carrying load of 0.5ton or more(Lifts fitted on a vehicle and with carrying load of less than 0.1ton would be excluded) But, small lift or delivery equipment used for general working which has shorter running distance than 3.0m or the exclusive facilities worker's cannot access to as parts of Automatic Conveyor shall be excluded.
Presses, shearing / Press brake	<ul style="list-style-type: none"> Presses, shearing/press break driven by power
Rollers	<ul style="list-style-type: none"> Rollers which soften or deform rubber, rubber compounds and synthetic plastics by using roller pressure. But, the closed type rollers which workers cannot access to shall be excluded.
Injection molding machines	<ul style="list-style-type: none"> Injection molding machines for the processing of plastics and/or rubber and driven by power.
Mobile elevated work platforms	<ul style="list-style-type: none"> All types and sizes of mobile elevated platforms intended to move persons to working positions where they are carrying out work from the work platform
Gondola Lifts	<ul style="list-style-type: none"> Gondolas driven by power, excluding the following case: <ul style="list-style-type: none"> Gondolas installed on any type of crane. Gondolas driven by any kind of engine. Gondolas with an incline of 45 degrees or less. Gondolas installed in any place within a workplace
Sawing machines	<ul style="list-style-type: none"> Portable-type sawing machines driven by motor with chain saw for processing wood such as logging, pruning, or etc. (excluding 'pole saw' for the process of wood pruning)

A range of application



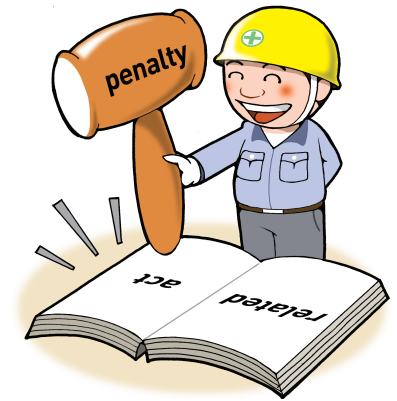
2 Self-regulatory Safety Check

Items	Scope
Grinders (exclude portable type)	<ul style="list-style-type: none"> Grinders for grinding, cutting, or polishing of workpiece using a power-driven abrasive wheel as the cutting tool.
Industrial Robots	<ul style="list-style-type: none"> Fixed-type of robots which have more than 3 manipulators including cartesian coordinate robot, and are automatically controlled and programed through designated controllers
Mixers	<ul style="list-style-type: none"> Mixers combining the materials using different types of blades fixed on a live spindle.
Crushers	<ul style="list-style-type: none"> Crushers reducing the size of materials (e.g. rock, metal, plastic) into smaller ones excluding one with a capacity of under 50kg per hour and food crushers.
Food processing machine (Crushers, Cutters, Mixers, Noodle making machines)	<ul style="list-style-type: none"> Food crushers : Crushers which crush food such as vegetables, meat, grain or fish Food cutters : Cutters which cut food such as vegetables, meat, grain or fish into certain size Food mixers : Mixers which mix food such as vegetables, meat, grain or fish Noodle making machines : Machines which make noodles in certain length from grain flour such as wheat flour or buckwheat flour
Conveyors	<ul style="list-style-type: none"> Power-driven belt; chain; roller; trolley; bucket; screw conveyors which automatically convey materials, half-finished goods, and freight excluding one can convey goods less than 3 meters
Automobile lifts	<ul style="list-style-type: none"> Power-driven machines lifting vehicles placed on the machines for check and maintenance

07

Items	Scope
Machine tools (Lathes, Drills, Planing machines, Shaping machines, Milling machines)	<ul style="list-style-type: none"> • Lathes : Lathes which rotate the workpiece (cylinder shape) on its axis to process by using cutting tools • Drills : Drills which bore holes in materials fastened on a table using drill bit while advancing along its rotation axis • Planing machines : Machines which process the surface of materials fastened on a table moving back-and-forth in horizontal way • Shaping machines : Machines which cut the vertical plane of materials fastened on a table moving in a vertically reciprocating motion by ram • Milling machines : Machines which process materials fastened on a table rotating cutting tools with several cutting edges
Fixed-type wood processing machines (Circular sawing machines, Planing machines, Routers, Band sawing machines, Chamfering machines)	<ul style="list-style-type: none"> • Circular sawing machines: Machines which cut and process wood using rotating circular saw blade • Planing machines : Machines which process materials by planing, chasing or chamfering with rotating saw blade • Routers : Routers which carve, chamfer, or cut with a high-speed rotating tool • Band sawing machines : Machines which process wood materials by rotating an endless-type band saw blade; The band usually rides on two wheels (top and bottom or left and right) attached on the frame. • Chamfering machines : Machines which cut curved surface or in curve shape and other process with a rotating tool
Printing presses	<ul style="list-style-type: none"> • Presses for printing ink onto a print medium such as paper, film, cloth, etc. The device applies pressure to print. This can include cutters, binders, paper reversers.
Chambers	<ul style="list-style-type: none"> • Chambers which apply or reduce pressure to workers working under water (excluding medical apparatus)

3 Related Act and Penalty



1

Safety Certification

- [Article 34 to 34-4 of the Occupational Safety and Health Act; Article 28 of the Enforcement Decree of the same Act; and Article 58 to 58-8 of the Enforcement Regulations of the same Act]
 - Notification of procedure for Safety Certification or Declaration of Self-regulatory Safety Check (Notification of MOEL No.2013-13)
 - Notification of Mandatory Safety Certification for Hazardous machinery and equipment (Notification of MOEL No.2012-33)

2

Declaration of Self-regulatory Safety Check

- [Article 35 to 35-4 of the Occupational Safety and Health Act; Article 28-5 of the Enforcement Decree of the same Act; and Article 60 to 63 of the Enforcement Regulation of the same Act]
 - Notification of procedure for Safety Certification or declaration of Self-regulatory Safety Check (Notification of MOEL No.2013-13)
 - Notification of Self-regulatory Safety Check for Hazardous machinery and equipment (Notification of MOEL No.2012-46)

3

Fee

- Fees for Occupational Safety and Health services (Notification of MOEL No.2013-2)

4

Documents for Submission

Cases		Required Documents
Safety Certification	Documentary Assessment	<div>1. Application form</div> <div>2. A copy of business license</div> <div>3. Documents verifying the state of import (only applied to import)</div> <div>4. Documents verifying identification of representative (when a manufacturer at an overseas site designates a Korean resident as its representative)</div> <div>5. Specification and Instruction manual of the machinery, apparatus, and equipment</div> <div>6. Assembling drawings of the machinery, apparatus, and equipment</div> <div>7. Specifications and drawings related to the protective devices included in the machinery, apparatus, and equipment</div> <div>8. Strength calculation and strength-related drawings of parts, materials, or bodies of the machinery, apparatus, and equipment only including the followings:<div><div>a. Drawings of Individual component of parts, materials, or finished goods of the machinery and apparatus; Detailed drawings to check the structure and strength calculation</div><div>b. Drawings of electronic components including electronic network diagrams, etc.</div><div>c. Drawings of hydraulic or pneumatic components including Network diagrams, etc.</div></div></div>
	Technical Capability & Production System	<div>1. Application form</div> <div>2. Documents verifying followings:<div><div>a. Way to establish and implement Quality Management System</div><div>b. Procedure and content to check the safety of the product</div><div>c. Procedure and content of follow-ups before and after the process production management and product shipments</div><div>d. Identification system of parts and products and preservation measures of products</div><div>e. Facility management and management of test & inspection equipment</div><div>f. Proposal process of defective products</div><div>g. Procedure to deal with customer complaint and the follow-ups</div></div></div>

4

Documents for Submission

Cases		Required Documents
Safety Certification	Product Assessment	<div>1. Application form</div> <div>2. Notification of the result of documentary assessment</div> <div>3. Notification of Technical Capability & Production System (only for product type assessment)</div> <div>4. Test report of every material within the machinery, apparatus, and equipment</div> <div>5. Arrangement drawings of machinery, apparatus, and equipment (only for product to be installed)</div> <div>6. Documents verifying safety of the structure for supporting cranes (10 tons or more of rated load)</div>
	Declaration of Self-regulatory Safety Check	<div>1. Application form</div> <div>2. Instruction manual of the product in Korean</div> <div>3. Documents verifying the qualification of machinery or apparatus subject to self-regulatory safety check, which meet the self-regulatory safety standards<div><div>a. Result of risk assessment</div><div>b. Test result by KOSHA or qualified inspection institutions (or the result of self-regulatory safety check)</div></div><div>*ILAC, APLAC, KOLAS</div></div>

5

Penalty

Violation	Penalty	Reference
Safety Certification	Not more than 3 years in prison or a fine not exceeding 20 million won	Article 67-2 of the Occupational Safety and Health Act
Declaration of Self-regulatory Safety Check	A fine not exceeding 10 million won	Article 69 of the Occupational Safety and Health Act

4 Fee for Safety Certification

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1

Fee for Safety Certification

(unit : KRW)

Products		Payment for mandatory certification					
		Documentary assessment		product assessment			
Cranes	ceiling, gantry	Rated load	Payment	Rated load			
		under 10ton	172,000	under 10ton	66,000		
		under 50ton	193,000	under 50ton	71,000		
		under 100ton	215,000	under 100ton	75,000		
		100ton or more	236,000	200ton or less	79,000		
	500ton or less			101,000			
	over 500ton			101,000+101,000 per 500ton (Overall payment must not exceed 500,000)			
	Hoist	129,000		Rated load			
				under 5ton	58,000		
				5 ton or more	62,000		
	Tower, Jib and others	Rated load		Rated load			
		under 50ton	215,000	under 10ton	101,000		
		50ton and more	280,000	under 50ton	107,000		
				100ton or less	116,000		
over 100ton				116,000+116,000 per100ton (Overall payment must not exceed 500,000)			
Unloader	Rated load		Rated load	168,000			
	under 30ton	323,000	under 30ton	168,000			
	30ton or more	430,000	under 50ton	216,000			
			50ton or more	259,000			
Lifts, Gondola		107,000		53,000			
Pressure Vessels		Inner volume	Class "Gab"	Class "Eul"	Internal volume	Class "Gab"	Class "Eul"
		under 5m³	172,000	86,000	under 2m³	34,000	16,000
					under 5m³	43,000	19,000
					under 30m³	64,000	24,000
					30m³ or more	77,000	32,000
					100m³ or less	82,000	38,000
over 100m³	82,000+82,000 per 100m³ (Overall payment must not exceed 500,000	38,000+38,000 per 100m³ (Overall payment must not exceed 500,000)					
Presses, shearing machines and press breke		pressing capacity		pressing capacity			
		under 200ton	140,000	under 50ton	34,000		
				under 200ton	43,000		
		200ton or more	183,000	300ton or less	51,000		
				500ton or less	62,000		
over 500ton	62,000+ 62,000 per 500ton (Overall payment must not exceed 500,000)						
Machine Saw		240,000		500,000			

Day of Assessment

Assessment	1-2 models	3-5 models	6 models or more
Documentary, technical capability & product system, surveillance	2 days		
Product	1 day	2 days	3 days

Under the circumstances of more than 2 days of travel, every 2 days of travel will be counted as a day of assessment.

*Standard fee annually reflects the increase rate of the unit cost of wage for intermediate-level technician in "industrial factory" based on the standard cost of engineering business from 2014

Fee for change of Certificate

Fee for issue of Certificate per assessment

Fee for issue of Certificate

Fee for re-issue or additional issue of test report : KRW 5,000 per application with all applied requirements.



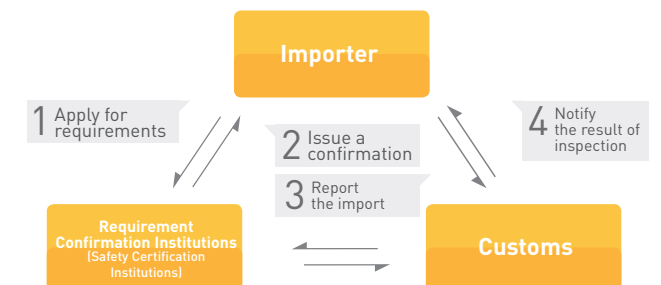
5 Sanctions against import clearance of uncertified product

- When import some of uncertified products subject to Safety Certification such as presses or shearing machines, sanctions—demanding supplementation of import declaration or postponing customs clearance, etc.—may be imposed by the relevant customs office.
- Importer (the owner) of goods, therefore, should get the Safety Certification and attach the confirmation of Safety Certification for imported goods before report the import declaration to the relevant customs office.

Major items subject to Safety Certification, confirmed by the Commissioner of the Korea Customs Service

Items subject to Safety Certification	Number of items with HSK code
Total	30 items
Presses / Shearing machines	8 items
Aerial work platforms / Cranes(movable)	6 items
Injection moulding machines	5 items
Explosion-proof electric machines and apparatuses	11 items

Procedure of import clearance



- Importer** : Apply for requirements to safety certification institution Submit "the application of Safety Certification Check for imported goods" to safety certification institutions
- Safety Certification Institution** : Apply and review the application (within 7 days) Issue the confirmation of Safety Certification for imported goods"
- Importer** : Attach documents including "the confirmation of Safety Certification for imported goods" Report the import to the relevant customs office
- Customs** : Import inspection Notify the result of inspection to Importer

