

# REGISTRATION OF PLANT DESIGN – APPLICATION

PD3 SEPTEMBER 2016

Use this form to register the design of an item of plant or to register an alteration(s) to a design of an item of plant specified in part 1 of Schedule 5 to the WHS Regulation.

The following plant requires design registration:

- Pressure vessels, categorised as hazard level A, B, C or D according to the criteria in section 2.1 of AS 4343: 2005 *Pressure equipment – hazard levels*.
- Boilers categorised as hazard level A, B, C or D according to criteria in section 2.1 of AS 4343: 2005 *Pressure equipment – hazard levels*.
- Gas cylinders covered by section 1.1 of AS 2030.1: 2009 *Gas cylinders – general requirements*.
- Lifts.
- Escalators and moving walkways.
- Tower cranes including self-erecting tower cranes.
- Gantry cranes with a safe working load (SWL) greater than five tonnes or bridge cranes with a SWL greater than 10 tonnes, and any gantry crane or bridge crane which is designed to handle molten metal or Schedule 11 hazardous chemicals.
- Mobile cranes with a rated capacity of greater than 10 tonnes.
- Hoists with a platform movement exceeding 2.4 metres, designed to lift people.
- Vehicle hoists.
- Mast climbing work platforms.
- Building maintenance units.
- Work boxes designed to be suspended from cranes.
- Concrete placing booms.
- Prefabricated scaffolding.
- Passenger ropeways.
- Boom-type elevating work platforms.
- Amusement devices covered by section 2.1 of AS 3533.1: 2009 *Amusement rides and devices – design and construction*, **except**: class 1 devices, playground devices, water slides where water facilitates patrons slide easily (predominantly under gravity) along a static structure, wave generators where patrons do not come into contact with the parts of machinery used for generating water waves, inflatable devices that are not continuously blown or inflatable devices with platforms less than three metres in height.

Further exceptions that do not require plant design registration include a heritage boiler, crane or hoist that is manually powered, elevating work platform that is a scissor lift or a vertically moving platform or a tow truck.

## How to fill in this form

Please type directly into the form. When complete, save a copy before emailing or printing.

If completing by hand, please print clearly and mark box(es) with a  where required.

## Fees

Refer to the fees schedule on the SafeWork NSW website or call 13 10 50. Payment of correct fee must be submitted with the application form.

## Lodgement instructions

**Email (preferred):** [licensing@safework.nsw.gov.au](mailto:licensing@safework.nsw.gov.au) (credit card payments only)

**Post:** Customer Experience – Locked Bag 2906, Lisarow, NSW 2252.

Email or post the application – do not send more than once.

## For assistance call – 13 10 50

## Privacy compliance statement

This information is collected by SafeWork NSW (the Regulator) for the purposes of undertaking the evaluation, assessment and processing of an application for the registration of plant design, as required by the WHS Act and WHS Regulation.

The Regulator may also use this information for the purposes of confirming applicant details and it may also be used to establish and maintain an external database and to assist the Regulator and its inspectorate with their work generally. This information may also be made available to other state or territory or the Commonwealth regulatory agencies including NSW department of industry skills and regional development.

Except for the purpose of prosecution and unless such disclosure is otherwise required or permitted by law, the information will not be otherwise accessed by any third parties in a way that would identify the individual, without the consent of that individual. Applicants are able to gain access to personal information pertaining to their application that is held by the Regulator. You may also apply to the Regulator to access and correct any of your own personal information the Regulator holds if that information is inaccurate, incomplete, not relevant or out of date. Applications should be made in writing to the Privacy Contact Officer, SafeWork NSW, Gosford Office, Locked Bag 2906, Lisarow, NSW 2252.

## SECTION 1. TYPE OF REGISTRATION

A reference to the alteration of a design is a reference to an alteration that may affect health and safety (Clause 244 (2) of the WHS Regulation). Mark one box only.

Original plant design  OR  Alteration of plant design

Original design registration number

If altering an existing item of plant provide item registration number

## SECTION 2. APPLICANT DETAILS

The person conducting a business or undertaking (PCBU) that designs an item of plant or a person who has management or control of an item of plant may register the design of an item of plant.

### Applicant type (mark one box only)

Individual  Corporation/PCBU (nominated responsible person for a corporation)

### SECTION 2.1 INDIVIDUAL APPLICANT OR CONTACT PERSON FOR A CORPORATION

Title  Family/Surname

Daytime contact number

Given name

Mobile number

Other names

Email

### SECTION 2.2 CORPORATION/PCBU DETAILS IF APPLICABLE

Registered name

Registered business (trading) name (if applicable)

ABN

### SECTION 2.3 ADDRESS (STREET ADDRESS FOR AN INDIVIDUAL OR REGISTERED BUSINESS ADDRESS FOR A CORPORATION/PCBU)

#### STREET ADDRESS (MUST NOT BE A PO BOX)

Unit number/Street number/Property number  
(include Lot or DP number if applicable)

#### POSTAL ADDRESS

Same as street address

Unit number/Street number/Property number  
(include Lot or DP/PO Box/GPO Box/Private Bag/Locked Bag)

Street name

Street name

Suburb

Suburb

State

Postcode

State

Postcode

Country (if other than Australia)

Country (if other than Australia)

## SECTION 3. PLANT DETAILS

Required for all plant design applications. Representational drawings of the design must be attached to the application. The drawings and other documents submitted with the application must be submitted in the English language and be capable of being kept in electronic form.

Manufacturer (if known)

Model/identification number (if relevant) and/or name of the item of plant for which the design registration is required (for example amusement device ride or passenger ropeway name). Please ensure the model/identification number is identical to that on the representational drawing.

Month/Year of design or alteration (MM/YYYY)

Representational drawing information for which the design registration is required. If there are more than four drawings, please provide details on a separate piece of paper. **Note:** Detail drawings are not required, one to three representational drawings are usually adequate. Please ensure the drawing number is identical to that on the representational drawing.

Title	Title
Drawing number	Drawing number
Revision number	Revision number
Title	Title
Drawing number	Drawing number
Revision number	Revision number

I have submitted copies of the representational drawings.

## SECTION 4: TYPE OF PLANT

Mark one item of plant for which design registration is sought.

Pressure vessels categorised as hazard level A, B, C or D according to the criteria in section 2.1 of AS 4343: 2005 *Pressure equipment – hazard levels*. **Please go to section 4.1**

Boilers categorised as hazard level A, B, C or D according to criteria in section 2.1 of AS 4343: 2005 *Pressure equipment – hazard levels*. **Please go to section 4.2**

Gas cylinders covered by section 1.1 of AS 2030.1: 2009 *Gas cylinders – general requirements*. **Please go to section 4.3**

Lift. **Please go to section 4.4**

Escalators or moving walkways. **Please go to section 4.5**

Tower cranes including self-erecting tower cranes. **Please go to section 4.6**

Gantry cranes with a SWL greater than five tonnes or bridge cranes with a SWL greater than 10 tonnes, or any gantry crane or bridge crane which is designed to handle molten metal or Schedule 11 hazardous chemicals. **Please go to section 4.7**

Mobile cranes with a rated capacity of greater than 10 tonnes. **Please go to section 4.8**

Hoists with a platform movement exceeding 2.4 metres, designed to lift people. **Please go to section 4.9**

Vehicle hoists. **Please go to section 4.10**

Mast climbing work platforms. **Please go to section 4.11**

Building maintenance units. **Please go to section 4.12**

Work boxes designed to be suspended from cranes. **Please go to section 4.13**

Concrete placing booms. **Please go to section 4.14**

Prefabricated scaffolding. **Please go to section 4.15**

Passenger ropeways. **Please go to section 4.16**

Boom-type elevating work platforms. **Please go to section 4.17**

Amusement devices covered by section 2.1 of AS 3533.1: 2009 *Amusement rides and devices – design and construction*, except: class 1 devices, playground devices, water slides where water facilitates patrons slide easily (predominantly under gravity) along a static structure, wave generators where patrons do not come into contact with the parts of machinery used for generating water waves, inflatable devices that are not continuously blown or inflatable devices with platforms less than three metres in height. **Please go to section 4.18**

**SECTION 4.1 ADDITIONAL INFORMATION FOR PRESSURE VESSELS**

If there are more than two chambers, please provide details for additional chambers on a separate sheet and write the total number of chambers here.

**CHAMBER 1 (HIGHEST HAZARD LEVEL CHAMBER)**

Pressure vessel hazard level according to AS 4343 (mark one box only).

A B C D

Volume (L)

Design gauge pressure (minimum and maximum)

kPa kPa

Design temperature (minimum and maximum)

°C °C

**Fluid type (mark one box only)**

Lethal Very harmful  
Harmful Non-harmful

Phase (refer to AS 4343 - 2005, Table 1, Note 3(c) or AS 4343-2014, 2.2.4 (c)) (mark one box only)

Liquid Gas

**TYPE OF VESSEL (mark one box only)****Steam vessel**

Steam jacketed vessel Steam vessel with quick actuating closures De-aerator  
Other (please describe)

**Miscellaneous vessel**

Air receiver	Process vessel (including corrosive)	Vacuum vessel
Auxiliary vessel	Refrigeration and air-conditioning vessel	Vessel (other than steam-heated) with quick actuating closures
Buried or mounded vessel	Static low temperature (< -10°C)	Water heater
Fire heaters/convection bank	Static storage (corrosive)	Other (please describe)
Heated vessel (other than steam) with quick actuating closure	Static storage (non-corrosive)	

**Transportable pressure vessel**

Bulk (LPG, ammonia) quenched and tempered steel construction	
Bulk (LPG, ammonia) carbon steel construction	Low temperature (< -10°C)
Powder discharge - aluminium construction	Powder discharge - carbon steel construction
Other (please describe)	

Please go to section 5.

**SECTION 4.2 ADDITIONAL INFORMATION FOR BOILERS**

Boiler hazard level according to AS 4343 (mark one box only)

A B C D

Volume (L)

Design temperature (°C)

Design pressure (kPa)

Output

kW

MW

**Type (mark one box only)**

Water tube Fire tube

Other (please describe)

**Boiler product**

Steam Hot water

Other (please describe)

Please go to section 5.

**SECTION 4.3 ADDITIONAL INFORMATION FOR GAS CYLINDER****Material type (mark one box only)**

Steel Aluminium

Other (please describe)

**Construction type (mark one box only)**

Welded Seamless Wrapped

Volume (L)

Design pressure (if applicable)

kPa

MPa

Test pressure

kPa MPa

**Contents (mark one box only)**

Permanent Medical gases and mixtures HP liquefied gases LP liquefied gases

Please go to section 5.

**SECTION 4.4 ADDITIONAL INFORMATION FOR LIFT****Control type (mark one box only)**

Automatic

Non-automatic

Maximum travel (m)

Maximum speed (m/s)

Maximum rated load (kg)

**Drive type (mark one box only)**

Electric

Electric/hydraulic

Pneumatic

Water

**Suspension type (mark one box only)**

Chain suspended

Hydraulic direct acting

Traction

Drum

Rack and pinion

Other (please describe)

Hydraulic – rope suspended

Screw

**Details of the car**

Maximum length (m)

Maximum number persons

Maximum width (m)

Maximum floor area (m<sup>2</sup>)

Maximum height (m)

Maximum number of openings in the car

**Carriage type (mark one box only)**

Car

Chair

Platform

**Lift motor control type (mark one box only)**

Single speed AC

Variable voltage AC

Variable voltage DC – static

Two speed AC

Variable voltage DC – motor generator

Other (please describe)

Variable frequency

**Type of lift (mark one box only)**

Goods

Passenger

Stairway

Goods/passenger

Private residency

Other (please describe)

Inclined

Restricted use – person with limited mobility

Low rise platform for passengers

Service

Please go to section 5.

**SECTION 4.5 ADDITIONAL INFORMATION FOR ESCALATOR OR MOVING WALK**

Escalator	Moving walk		
Maximum travel (m)		Maximum width (m)	Maximum speed (m/s)
Maximum rise (m)		Maximum number passengers per hour	

Please go to section 5.

**SECTION 4.6 ADDITIONAL INFORMATION FOR TOWER CRANE****Luffing drive (mark one box only)**

Hydraulic	Winch	No luffing	
Maximum rated capacity (t)		Maximum radius (m)	Maximum installed height (m)

**Type (mark as appropriate)**

Self erecting	Fixed or rail mounted	Internal climber
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**Support (mark one box only)**

Articulated jib	Trolley jib
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Please go to section 5.

**SECTION 4.7 ADDITIONAL INFORMATION FOR GANTRY CRANE WITH SWL GREATER THAN FIVE TONNES OR BRIDGE CRANE WITH SWL GREATER THAN 10 TONNES OR ANY GANTRY CRANE OR BRIDGE CRANE DESIGNED TO HANDLE MOLTEN METAL OR SCHEDULE 11 HAZARDOUS CHEMICALS****Mark one box only**

Gantry Crane with SWL greater than five tonnes

Bridge Crane with SWL greater than 10 tonnes

Gantry Crane designed to handle molten metal or Schedule 11 hazardous chemicals

Bridge Crane designed to handle molten metal or Schedule 11 hazardous chemicals

Maximum span of bridge (m)	Maximum height of bridge above ground (m)
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**Control type (mark one box only)**

Cabin	Pendant	Wireless
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Number of hoists	Main hoist capacity (t)
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Main hoisting speed (m/s)	2nd Hoist capacity (if different, place smaller capacity here)
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Please go to section 5.



**SECTION 4.8 ADDITIONAL INFORMATION FOR MOBILE CRANE**

Maximum rated capacity (t)

Maximum radius (m)

**Mark one box only**

Slewing

Non-slewing

**Type of luffing (mark one box only)**

Hydraulic

Winch

**Boom type (mark one box only)**

Hydraulic extension

Pin-jib (lattice)

**Travel mode (mark one box only)**

Wheel

Crawler track

Please go to section 5.

**SECTION 4.9 ADDITIONAL INFORMATION FOR HOIST WITH A PLATFORM MOVEMENT EXCEEDING 2.4 METRES DESIGNED TO LIFT PEOPLE**

Maximum free standing height (m)

Maximum rated capacity (t)

Maximum travel (m)

Maximum hoisting speed (m/s)

Please go to section 5.

**SECTION 4.10 ADDITIONAL INFORMATION FOR VEHICLE HOISTS**

Maximum rated capacity (kg)

Maximum travel (m)

Maximum hoisting speed (m/s)

Please go to section 5.

**SECTION 4.11 ADDITIONAL INFORMATION FOR MAST CLIMBING WORK PLATFORMS**

Maximum rated capacity (kg)

Maximum working height (m)

Maximum free standing height (m)

**Mast type (mark one box only)**

Single

Double

**Type of base (mark one box only)**

Fixed

Trailer mounted

Other (please describe)

Maximum wind velocity in service (m/s)

Maximum vertical travel speed (m/s)

Please go to section 5.

**SECTION 4.12 ADDITIONAL INFORMATION FOR BUILDING MAINTENANCE UNIT****Type of unit from AS 1418.13, even if designed to another standard (mark one box only)**

A

B

C

Maximum rated capacity (kg)

Maximum working height (m)

**Hoist motor location (mark one box only)**

Platform

Roof

Please go to section 5.

**SECTION 4.13 ADDITIONAL INFORMATION FOR WORK BOXES DESIGNED TO BE SUSPENDED FROM CRANES**

Maximum rated capacity (kg)                      Maximum number of people permitted                      Height of box (m)

Length of box (m)                                      Width of box (m)                                      Tare mass (kg)

Please go to section 5.

**SECTION 4.14 ADDITIONAL INFORMATION FOR CONCRETE PLACING BOOMS**Maximum boom length (m)                                      Maximum delivery rate (m<sup>3</sup>/hr)

Truck mounted                      Fixed

Please go to section 5.

**SECTION 4.15 ADDITIONAL INFORMATION FOR PREFABRICATED SCAFFOLDING****Type (mark one box only)**

Modular                      Tower - frame                      Frame type

**Design duty loading according to AS 1576 (mark one box only)**

Heavy (H)                      Medium (M)                      Light (L)                      Special

Maximum working height  
(which can be erected) (m)Maximum number of planked platforms at the  
maximum working heightMaximum number of planked platforms that can be loaded at the same time at the maximum working height for:  
Heavy                                      Medium                                      Light

Provide a number for all three types and write '0' if not applicable.

Please go to section 5.

**SECTION 4.16 ADDITIONAL INFORMATION FOR PASSENGER ROPEWAYS****Type of passenger support (mark one box only)**

Cabin/chair lift                      Rope tow

Number of supports or units

Number of compression tension towers

Maximum number of persons

Maximum height (m)

Number of persons per support

Number of towers

Travel distance (m)

Number of load/unload facilities

Please go to section 5.

**SECTION 4.17 ADDITIONAL INFORMATION FOR BOOM TYPE ELEVATING WORK PLATFORMS****Type (mark one box only)**

Truck-mounted      Self-propelled      Trailer-mounted  
 Other (please describe)

**Propulsion type (mark one box only)**

Self-propelled      Pedestrian controlled      Manually operated  
 Maximum rated capacity (kg)      Maximum radius (m) (from inner edge of work platform to axis of rotation).

Indoor      Outdoor  
 Maximum rated wind velocity for outdoor use (m/s)      Maximum chassis inclination (degrees)

Non-insulated      Insulated  
 If insulated provide the insulation rating (kv)      Maximum platform height (m)

Please go to section 5.

**SECTION 4.18 ADDITIONAL INFORMATION FOR AMUSEMENT DEVICES COVERED BY SECTION 2.1 OF AS 3533.1: 2009**

Except: class 1 devices, playground devices, water slides where water facilitates patrons slide easily (predominantly under gravity) along a static structure, wave generators where patrons do not come into contact with the parts of machinery used for generating water waves, inflatable devices that are not continuously blown or inflatable devices with platforms less than three metres in height.

**Class of device in accordance with AS 3533 Part 1 (mark one box only)**

2      3      4      5

**Type (mark one box only)**

Inflatable      Powered      Other (please describe)

**Type (mark one box only)**

Fixed      Mobile      Other (please describe)

Name or description of amusement device

*Section 4.18 continued over...*

**Type of passenger support (mark one box only)**

Cabin      Seat      Standing platform      Suspended      Slide

Number of supports or units      Minimum height (cm) (if applicable)

Maximum number of persons      Maximum speed of patrons (m/s)

Number of persons per support: Adults      Maximum acceleration (g) (force)

Children (if different to number of adults)      Maximum revolving speed (rpm) (if applicable)

Minimum age years (if applicable)      Maximum height attained by patrons (m)

**Operating power**

Battery      Electric      Electric - hydraulic      Petrol      Diesel

Other (please describe)

Is a pressure vessel used with the device?      Yes      No

If yes, does AS 3788 require it to have periodic internal inspections?      Yes      No

Please go to section 5.

**SECTION 5. DESIGNER'S STATEMENT**

Plant type

Drawing title

Drawing number (mandatory)

Revision number

Detail of technical standards used in the design (full title including the number and year)

The design does not fully comply with the technical standards listed above and I have used engineering principles for the design aspects that do not comply with the listed standards, as listed in an attachment to this application.

**SECTION 5.1 DESIGNER'S DECLARATION**

I (print full name),

have complied with the designer's obligations under section 22 of the WHS Act in respect to the design of the plant.

Designer's signature

Date (DD/MM/YYYY)

It is an offence under the *Crimes Act 1900* (Crimes Act) and section 268 of the *Work Health and Safety Act 2011* to make a false or misleading statement in the form, heavy penalties apply. Please go to section 6.

**SECTION 6. DESIGN VERIFIER'S STATEMENT**

Plant type

Drawing title

Drawing number (mandatory)

Revision number

**SECTION 6.1 DESIGN VERIFIER'S DETAILS**

Title Family/Surname

Daytime contact number

Given name

Mobile number

Other names

Email

**SECTION 6.2 DESIGN VERIFIER'S ADDRESS****STREET ADDRESS (MUST NOT BE A PO BOX)**Unit number/Street number/Property number  
(include Lot or DP number if applicable)**POSTAL ADDRESS**

Same as street address

Unit number/Street number/Property number  
(include Lot or DP/PO Box/GPO Box/Private Bag/Locked Bag)

Street name

Street name

Suburb

Suburb

State

Postcode

State

Postcode

Country (if other than Australia)

Country (if other than Australia)

Relevant qualifications

**SECTION 6.3 DETAILS OF THE DESIGN VERIFIER’S EMPLOYER**

Registered name

Registered business (trading) name (if applicable)

ABN

**DESIGN VERIFIER’S EMPLOYER ADDRESS**

Same as street address of design verifier

Unit number/Street number/Property number  
(include Lot or DP number if applicable)

Suburb

State

Postcode

Street name

Country (if other than Australia)

**SECTION 6.4 DESIGN VERIFIER’S DECLARATION**

I (print full name),

declare that the design was produced in accordance with the published technical standards or engineering principles specified in the designer’s statement/submitted with the application and I am eligible to verify this design under the provisions of Division 3, Registration process for plant designs of part 5.3 of the WHS Regulation.

I was not involved in the production of the design.

Design verifier’s signature

Date (DD/MM/YYYY)

It is an offence under the *Crimes Act 1900* (Crimes Act) and section 268 of the WHS Act to make a false or misleading statement in the form, heavy penalties apply. Please go to section 7.

**SECTION 7. APPLICANT’S DECLARATION**

I (print full name),

declare that:

- the information in this application is true and correct to the best of my knowledge
- I consent to the Regulator making enquiries and exchanging information with work health and safety regulators in other states, territories, or the Commonwealth or NSW Department of Industry Skills and Regional Development regarding any matter relevant to this application
- the design is not registered with another state or territory or the Commonwealth work health and safety regulator.

Applicant’s signature

Date (DD/MM/YYYY)

Please go to section 8.

## SECTION 8. LODGEMENT FEES

A fee must be paid on lodgement of the application form.

Refer to the [SafeWork NSW fees schedule](http://www.safework.nsw.gov.au) available at [www.safework.nsw.gov.au](http://www.safework.nsw.gov.au).

Please charge \$ \_\_\_\_\_ to my:      MasterCard      Visa  
 A payment processing fee of 0.40% applies to MasterCard and Visa  
 Card number \_\_\_\_\_ Card expiry date (MM/YYYY)

Cardholder name (please print name as displayed on credit card)

Cardholder signature \_\_\_\_\_ Date (DD/MM/YYYY)

## SECTION 9. CHECKLIST TO SUBMIT YOUR APPLICATION

Representational drawing(s) of the plant design has been submitted with the application. The drawing must be in the English language and is capable of being electronically stored.

Please ensure the quoted drawing number and the model number are identical to those on the representational drawing.

If engineering principles were used in the design, details of these principles have been submitted with this application.

All parts of section 2 have been completed.

Fee as per the fees schedule must be submitted with the application.