

# Environmental Compliance

# Abrasive blasting

## Checklist for operators

This checklist is designed to assist you in meeting your environmental due diligence. You should be aware that this document is only a guideline for compliance with your general obligations under the *Environmental Protection Act 1994*. It does not limit your legal responsibilities and obligations under the *Environmental Protection Act 1994* or any other relevant legislation.

\*\*\* signifies "best practice"

Compliance details		
Aspect	Requirement	✓
General	*** An environmental management system (EMS) is developed specifically for your business.	
	All staff are trained in the environmental management of the business.	
	Your business is complying with the conditions of the Development Approval.	
	A copy of the Development Approval is on-site and readily accessible.	
	A complaints register is kept on the premises to document any complaints received about the activity. This complaints register includes: <ul style="list-style-type: none"> <li>time, date and nature of the complaint</li> <li>how the complaint was made</li> <li>details of the complainant</li> <li>investigation into the complaint and action taken</li> <li>details of the person who investigated the complaint</li> <li>*** response to complainant.</li> </ul>	
	An incidents register is kept at the premises which records: <ul style="list-style-type: none"> <li>time, date and details of the incident</li> <li>how the incident occurred</li> <li>action taken to remedy the incident</li> <li>investigation into the incident</li> <li>recommendations from investigation.</li> </ul>	
	Notification has been made to the Department of Environment and Heritage Protection for the Notifiable Activity, Abrasive Blasting as per Schedule 3 of the Act.	
	Your business complies with the requirements of the Transitional Environmental Program (TEP) and the Environmental Protection Order (EPO) (where applicable).	
	Quantities of flammable and/or combustible liquids are stored in compliance with the requirements of the <i>Work Health and Safety Act 2011</i> .	
Site management - general		
Aspect	Requirement	✓
Lighting of premises	Lighting of the premises for security or any other reason is controlled so that annoyance is not caused to the occupants of neighbouring areas.	
Noise	Noise generating equipment and processes (e.g. compressors, sanders) are controlled so that noise nuisance is not caused to surrounding premises.	
Maintenance	The facility is maintained in a clean and tidy state at all times.	
	*** Visual amenity blends suitably with the surrounding environment.	
Air/odour	Dust, odour and particulate emission are controlled such that nuisance is not caused to surrounding premises.	
Stormwater	Stormwater is prevented from entering contaminated work areas.	

For more information, contact your local Council

In-chamber abrasive blasting		
Aspect	Requirement	✓
Air	All blasting is conducted within fully-enclosed chamber (other than itinerant and large objects blasted in accordance with requirements listed under "Open abrasive blasting" below).	
	Chamber is vented to atmosphere through an effective dust collector.	
	Discharges are within levels prescribed in conditions of approval or the <i>Environmental Protection (Air) Policy 1997</i> .	
	Warning device is incorporated in the filter arrangement to alert the operator if the filters fail.	
	Chamber is designed to enable frequent or continuous recovery of spent abrasives.	
	Doors are kept closed for a suitable period after blasting operations to allow residual particulate to be extracted from the chamber.	
	All particulate waste generated is collected in the blast chamber and disposed of appropriately.	
	*** Records of maintenance of dust collection equipment are kept.	
	*** Regular blasting of large objects is undertaken in a chamber.	
Water	Chambers in which wet blasting is conducted are adequately bunded.	
Noise	All noise generating equipment (e.g. motors, compressors) are controlled so that noise nuisance is not caused to surrounding premises.	
Open abrasive blasting (itinerant activities or large objects only)		
Aspect	Requirement	✓
Air	Only large objects (greater than 2.5m x 2.5m x 3.0m) or fixed objects are blasted in the open.	
	All surfaces are tested for the presence of lead-based paints and records of testing kept.	
	Removal of lead-based surface coatings comply with Australian Standard 4361.1-1995 (Guide to lead paint management – industrial applications).	
	All items are fully-enclosed (sides and top) or fully-screened (sides only to a height of 2m above structure) with appropriate screening materials. Shade cloth not appropriate.	
	Fully-enclosed structures are fitted with a dust extraction/collection system.	
	Abrasive blasting is undertaken no closer than 50m (wet blasting) or 200m (dry blasting) from adjoining land uses, unless the operator can demonstrate there will be no nuisance caused.	
	Blasting is undertaken in a downwards direction where possible.	
	*** Vacuum recovery systems are used for all open blasting operations.	
	*** Ilmenite is the only media used in open abrasive blasting.	
Water	Ground area beneath items is controlled (e.g. bunding required for wet blasting, otherwise drop sheets). Wastewater, spent abrasive and other debris are collected and disposed of appropriately.	
Noise	All noise-generating equipment and processes (e.g. generators, compressors) are controlled so that noise nuisance is not caused to surrounding premises.	
Blast media		
Aspect	Requirement	✓
Media constituent limits	Abrasive media does not exceed constituent limits of free silica (2.0%) cobalt (0.5%), antimony (0.1%), lead (0.1%), arsenic (0.1%), nickel (0.5%), beryllium (0.1%), tin (0.1%), and cadmium (0.1%).	
Copper and zinc slags	Use of these avoided where possible.	
Water	Corrosion inhibitors used are biodegradable and free from chromates, nitrates and nitrites.	

Storage of potential contaminants		
Aspect	Requirement	✓
<b>General</b>	Potential solid and liquid contaminants are stored within an adequately bunded and covered area, away from through traffic areas.	
	Spill clean-up equipment available.	
	Procedures are in place with respect to containment and disposal of spilt contaminants.	
	All containers with decanting taps are fitted with spill trays to contain drips from taps.	
	All bunds are constructed of compounds that are impervious to the materials stored within.	
Waste management - general		
Aspect	Requirement	✓
<b>Waste</b>	Undercover storage area is provided and maintained in a clean and tidy condition.	
	Waste containers are clearly labelled and located in conveniently accessible areas.	
	Waste is minimised on-site; only solid inert waste is disposed of to landfill.	
	No incineration of waste on-site.	
	Floor waste is captured and disposed of appropriately (e.g. sweep and bag, vacuum etc). *** Floors cleaned using wet/dry vacuums.	
<b>Wastewater</b>	Disposal to sewer under a trade waste approval, or removal by an approved waste transporter.	
	*** Wastewater is treated on-site and re-used.	
<b>Regulated wastes</b>	All regulated wastes are removed from the premises by an approved regulated waste transporter. Records are available for inspection of the following: <ul style="list-style-type: none"> <li>• Hazardous waste disposal facility dockets (when applicable).</li> <li>• Licensed waste transport vehicle details (when applicable).</li> <li>• Register of time, date, quantity, type and destination of waste removed or disposed of.</li> </ul>	
<b>Recycling</b>	*** Waste, as below, is segregated for recycling and re-used on-site where possible: <ul style="list-style-type: none"> <li>• Clean cardboard.</li> <li>• Aluminium cans and drink bottles.</li> <li>• Plastics.</li> <li>• Steel products (drums, drained steel cans).</li> <li>• Rags.</li> </ul>	
Waste management – site specific		
Aspect	Requirement	✓
<b>Blast media</b>	Records maintained of abrasive media purchased and the amounts disposed of.	
	*** All abrasives used are collected, separated and re-used.	

Your name: \_\_\_\_\_ Date: \_\_\_\_\_