

Kushed Procedures

Angle Grinders & Work Wheel

P4

100mm Angle Grinder - Black & Decker

- Ryobi

- Hitachi

125mm Angle Grinder – Makita

Work Wheel – Black & Decker

Arbortec Carving Wheel for
angle grinder

These are VERY high risk tools
and great care must be
exercised.

Just google “angle grinder
accidents” then select images
and you will be convinced.





The Shed provides items such as welding masks and gloves.

Members are required to provide their own footwear, eyewear, hearing protection and masks.

Safety

This is a very high priority for our Shed members. There are some aspects that are mandatory under our insurance policies and some which the The Shed requires members to adhere to for everyone's benefit.

The Shed Safety Induction

It is a requirement of attendance at The Shed that members have reviewed the Safety Induction Presentation

Personal Protective Equipment

This is required in various forms depending upon the equipment being used or the activity being undertaken.

Protective eyewear is always mandatory when using machinery.

The Shed schedules a Coordinator and a First Aid Safety Officer for each day of attendance and their safety directions are final and must be adhered to.

Personal protective equipment

For your own safety wear:

- wide vision goggles, safety glasses or a face shield
- earmuffs or ear plugs
- safety boots with steel toecaps
- overalls or other fitted clothing
- well-fitted gloves that allow a good grip of the tool.

Before Starting

Angle grinders can be a **very** dangerous power tool. Kickbacks can result in severe cuts. Discs can shatter or disintegrate producing fragments which may become lodged in the operator's eyes or other parts of the body, potentially causing a fatality.



The Shed does not allow 230mm Angle Grinders

Caution: 9 inch (230 mm) angle grinders have been banned on some work sites due to the increased risk of injury. The increased power and size of the unit will cause more severe kickback and gyroscopic effects (i.e. makes the grinder difficult to manoeuvre).



What not to do!

Secure the work
Adopt a safe stance

Risk control measures

- consider whether an angle grinder is actually the best tool to perform the task, because another tool may be just as, or even more, effective
- when purchasing a grinder, choose one with adjustable handles that can be moved to suit both left and right-handed operators choose a grinder that has an automatic cut-off or dead-man switch as part of the handgrip. This is designed to cut off power as soon as finger pressure is released. Automatic cut-off switches may not be available on smaller models and may not be practicable for certain tasks
- do not use a grinder that is larger, heavier or more powerful than is necessary, as it is much easier to control a lighter tool
- guards must not be removed. The guard should cover half of the disc and be positioned between the disc and the operator
- ensure that the correct type of disc is used for the task being performed. The wrong disc could shatter or 'grab' the work piece causing kickback



Never remove the guards

Risk Control Measures

- when using a grinder fitted with a cutting disc, keep the depth of cut to no more than double the disc thickness and avoid plunging the disc too far through the work piece
- provide operators with training and instruction in safe work procedures for angle grinders
- provide one-on-one supervision for workers receiving training in the use of angle grinders or people who are unfamiliar with their use
- use welding screens to stop other workers being hit by flying particles and sparks
- ensure all workers maintain a safe distance from any person who is in the process of grinding
- ensure all grinders are regularly checked for electrical safety and that all defects are repaired by a competent person.

Before use

Before using an angle grinder, ensure that:

- the guard and handles are secure
- there are no defects or damage to the disc (a disc which has been dropped may have developed cracks and should not be used)
- the correct flange and locking nut is in place for the type of disc being used (otherwise the disc can shatter at high speed)
- the tightening tool supplied by the grinder manufacturer is used to tighten the disc as other methods can damage the disc and grinder
- the correct disc diameter and central disc hole size for the spindle is used
- the correct type of disc is used for example grinding discs for grinding and cutting discs for cutting
- the correct type of disc is used for the material being cut or ground.



Select the correct disc

During use

Follow these suggested safe practices when an angle grinder is in use:

- use two hands to operate the grinder. One hand should grip the handle and dead-man switch (if provided), while the other hand supports the weight of the tool
- allow the grinder to 'run up' to operating speed before applying it to the job
- hold the grinder against the work piece with minimum pressure, so the disc does not 'grab' and cause it to kickback
- never bump the grinder onto the object, or let the disc hit any other object while grinding
- keep the grinding disc at a 15 to 30-degree angle to the object. Ensure the work piece is held firmly, either as part of a larger item or in a bench vice
- where possible, keep the work at waist height during grinding



Correct operation



Arbortec

This is a specialized blade typically used for woodcarving

The Industrial Woodcarver comes with an adjustable ProGuard. This can be used as a depth gauge and a guide for straight cutting whilst also protecting the user from the cutting edge.

- the Industrial Woodcarver will attach to most standard 100mm (4") or 115mm (4 1/2") angle grinders.
- It is perfect for trenching, rough shaping and straight cuts in wood.
- Used for burls, busts, chairs, rocking horses and more.

