

STANDARD OPERATING PROCEDURES

Grinder - Angle

DO NOT use this equipment unless you have received authorization from the Shop Coordinator



Sturdy, closed-toe footwear must be worn.



Protective, long-sleeved clothing must be worn.



Face shield or safety glasses must be worn.



Appropriate gloves must be worn at all times.



Hearing protection must be worn.



Do not wear loose clothing, secure long hair, and do not wear jewelry.

Potential Hazards and Injuries

- Burns from hot materials or friction
- Sparks
- Electrocution
- Noise
- Cuts/Lacerations
- Hair/clothing getting caught in rotating parts
- Fumes/Dust Inhalation
- Eye injuries

Pre-Operational Safety Checks

- Keep work area clean and tidy.
- Use only in designated grinding area – erect screens if necessary.
- Examine the power cord, extension lead, plugs, sockets and power outlet for damage.
- Ensure that the grinding disc, guard and attachments (including handle) are secure and correctly fitted.
- Inspect the grinding disc for damage. Do not use damaged grinding disc.
- Always inspect the work piece to ensure that there aren't any items which might damage the grinding wheel or cause injury to the operator.
- Secure and support the work piece using clamps, bench vices etc.
- Faulty equipment must NOT be used. IMMEDIATELY report suspect equipment.

Safe Practices During Operation

- Ensure all other personnel are clear of the immediate work area.
- Keep fingers and hands & power cords clear of the grinding disc.
- Never make adjustments while the angle grinder is running.
- Do not switch off the angle grinder when it is under load, except in an emergency.
- Allow angle grinder to reach operating speed before applying to work piece & increase load gradually.
- Do not lift or drag angle grinders by the cord.
- Keep flexible electrical cords clear of oil, grease, machines, and sources of heat.
- Be aware of flying sparks. Hold grinder so that sparks fly away from you, other people and flammable materials.
- Do not leave the angle grinder running & only use the grinder when handheld.
- Do not touch the work piece immediately after grinding operation as it may be extremely hot.
- Grinder must be isolated from power source when being cleaned, adjusted, maintained, or repaired.

Ending Operations and Cleaning Up

- Switch off the grinder when work completed & before removing waste material from work site.
- Make sure disk is still in good condition after usage.

- ✓ Avoid trip hazards & prevent damage to electrical cords.
- ✓ Do not walk on, wheel objects over, or drop materials / tools on flexible electrical cords.
- ✓ Clean bench and work area & place all waste material in bin.
- ✓ Return angle grinder & rolled up extension leads to storage area.
- ✓ Leave the machine in a safe, clean and tidy state.

DON'T

- ⊗ Do not use cords that are damaged or that have come loose from the plug
- ⊗ Do not use cords that have a grounding terminal broken off.
- ⊗ DO NOT operate equipment without wearing appropriate PPE
- ⊗ Do not use a disc that is larger dia. than the maximum specified for the machine. Check speed rating.
- ⊗ Do not use the machine with the guard removed.
- ⊗ Do not use the wrong type of disc for the operation.
- ⊗ Do not use heavy pressure.
- ⊗ Never leave the machine running unattended.
- ⊗ Do not slow down the wheel on the work piece. Grinding at less than the proper speed will tear grit out of the disc reducing its life.
- ⊗ Do not use faulty equipment. Immediately report any suspect equipment & apply a DO NOT USE tag.