

ILLUSIONS AUSTRALIA

SAFE WORK PROCEDURE

SWP 065 – PEDESTAL GRINDER

1. PURPOSE AND SCOPE

Minimum requirements for safe operation of pedestal grinders at Illusions Australia.

Applies to fixed pedestal-mounted abrasive grinding wheels used for approved grinding, deburring and sharpening tasks.

2. AUTHORISATION AND COMPETENCY

Only competent and authorised workers may operate the grinder.

Operators must understand wheel condition/rating, guarding, tool-rest adjustment, spark control and isolation.

3. REQUIRED PPE

The following PPE must be worn as appropriate:

- Safety glasses and face protection where fragment risk warrants it.
- Hearing protection.
- Safety footwear.
- Respiratory protection where dust/fume controls require it.
- Close-fitting clothing; restrain hair and avoid entanglement-prone gloves near rotating wheels.

4. PRE-START CHECKS

Before commencing work, confirm that:

- Grinding wheels are correct, undamaged and suitable for the machine/task.
- Guards and eye shields are secure.
- Tool rests are adjusted close to the wheel without contact.
- Wheel mounting appears secure.
- Emergency stop/switch is accessible.
- Area is clear and extraction operates where provided.
- Spark path is clear of people and combustibles.

5. SAFE OPERATING PROCEDURE

1. Stand to one side at start-up and allow wheel to reach full speed.
2. Hold work securely on the tool rest.
3. Apply work gradually to the wheel face in the approved area.
4. Use light controlled pressure.
5. Keep fingers clear and maintain stable stance.
6. Quench/cool work where appropriate while recognising burn hazards.
7. Dress the wheel only using approved tools and methods by a competent person.

8. Switch off and remain clear until wheels stop.

6. PROHIBITED PRACTICES

Workers must not:

- Grind on the side of a wheel unless specifically designed for side grinding.
- Use cracked, chipped or incorrectly rated wheels.
- Operate without guards or correctly adjusted rests.
- Force work into the wheel.
- Adjust rests while wheel is moving.
- Leave grinder running unattended.
- Use the grinder where sparks may ignite combustibles without controls.

7. WHEEL FAILURE

Abrasive-wheel failure can project fragments at high velocity.

- Inspect before use.
- Use only correctly rated wheels.
- Wheel replacement must follow manufacturer requirements and be undertaken by a competent person.

8. SPARKS AND HOT WORKPIECES

Grinding produces sparks and hot metal.

- Direct sparks safely.
- Remove/protect combustibles.
- Treat recently ground material as hot.

9. FAULTS, DAMAGE AND ABNORMAL CONDITIONS

Stop for excessive vibration, wheel damage, loose guard/rest, unusual noise, electrical fault or overheating.

Isolate and tag out.

10. SHUTDOWN AND HOUSEKEEPING

- Switch off and wait for wheels to stop.
- Clean grinding debris safely.
- Leave guards/rests correctly positioned.
- Report defects.
- Store accessories safely.

11. EMERGENCY AND INCIDENT RESPONSE

1. Stop the equipment or activity immediately.
2. Isolate the hazard or energy source where safe to do so.
3. Provide or obtain first aid as required.
4. Notify the Foreman, Leading Hand or other authorised Illusions Australia representative.
5. Call emergency services where required.

6. Do not recommence until the incident, defect or unsafe condition has been addressed.

12. STOP WORK REQUIREMENT

Work must stop where:

- Wheel condition/rating is uncertain.
- Guard or rest is defective.
- Excessive vibration occurs.
- Spark/fire controls are inadequate.
- Workpiece cannot be safely held.

No production requirement or deadline takes priority over safe work.

DOCUMENT CONTROL

Document	SWP 065 – Pedestal Grinder
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Prepared By	Aidan McDonnell
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