

ILLUSIONS AUSTRALIA

SAFE WORK PROCEDURE

SWP 049 – LASERS - CLASSES 1 & 2

1. PURPOSE AND SCOPE

Minimum requirements for safe use of Class 1 and Class 2 laser products at Illusions Australia.

Applies to low-risk laser devices used for alignment, measurement, positioning or other approved purposes; equipment classification and manufacturer controls remain applicable.

2. AUTHORISATION AND COMPETENCY

Users must understand the laser class, intended use and basic eye-exposure controls.

Damaged, modified or mislabelled laser equipment must not be used.

3. REQUIRED PPE

The following PPE must be worn as appropriate:

- Normal task PPE. Laser protective eyewear is not normally required for correctly used Class 1 or Class 2 products unless a specific risk assessment or manufacturer instruction requires it.

4. PRE-START CHECKS

Before commencing work, confirm that:

- Laser classification label is present and legible.
- Housing, aperture and controls are undamaged.
- Beam path is known and does not terminate at eye level where avoidable.
- Reflective surfaces that could redirect the beam are controlled.
- People not involved in the task are kept clear where necessary.
- The device has not been modified.

5. SAFE OPERATING PROCEDURE

1. Confirm class and intended operating method.
2. Position the device so the beam is below or above normal eye level where practicable.
3. Aim only at the intended target.
4. Minimise exposure duration.
5. Avoid reflective surfaces in the beam path.
6. Switch off or shutter the beam when not required.
7. Store the device securely after use.

6. PROHIBITED PRACTICES

Workers must not:

- Deliberately stare into a Class 2 beam.
- Aim a laser at another person.
- Aim at vehicles, aircraft, public areas or reflective surfaces where uncontrolled exposure could occur.
- Modify housings, labels or safety features.
- Use damaged or unclassified laser equipment.
- Use optical viewing aids to look directly into a beam.

7. EYE EXPOSURE

Class 2 visible lasers rely partly on the natural aversion/blink response and must still be used to avoid deliberate exposure.

- Never intentionally view the beam.
- Terminate beams safely.
- Position devices to avoid eye-level exposure.

8. PUBLIC AND THIRD-PARTY EXPOSURE

Even low-power beams can distract or alarm others.

- Confine beams to the controlled work area.
- Do not direct beams outside the site or toward transport routes.

9. FAULTS, DAMAGE AND ABNORMAL CONDITIONS

Stop for damaged housing, missing classification, unexpected beam behaviour or inability to control the beam path.

Remove suspect equipment from service.

10. SHUTDOWN AND HOUSEKEEPING

- Switch off and secure the laser.
- Remove temporary targets/controls.
- Report damage or classification concerns.
- Store to prevent unauthorised use.

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:

- Laser class cannot be confirmed.

- Beam path cannot be controlled.
- The device is damaged or modified.
- Members of the public or other workers may be exposed unexpectedly.

No production requirement or deadline takes priority over safe work.

DOCUMENT CONTROL

Document	SWP 049 – Lasers - Classes 1 & 2
Document Type	Safe Work Procedure
Prepared By	Aidan McDonnell
Approved By	Managing Director
Status	Controlled Document