



Electrical Equipment



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This guide outlines the criteria that must be addressed and managed when planning and conducting electrical equipment-related activities. Workers, including contractors are expected to integrate these criteria into their Health Safety Environment Quality (HSEQ) management systems and plans. Compliance with these requirements ensures the safe and responsible operation of electrical equipment within Indara's premises.

CRITERIA FOR ELECTRICAL EQUIPMENT SAFETY

RESPONSIBILITIES AND AUTHORITIES

Designated personnel are assigned responsibilities and authorities for managing and supervising laser safety, with relevant individuals identified.

LASER BEAM PLACEMENT

Class 3A, Class 3R, or Class 3B restricted laser beams are positioned well above or below eye level while in use.

SAFE ACCESS AND EGRESS

Adequate access and egress routes are provided to areas where lasers are operational.

LASER EQUIPMENT DESIGN

Laser equipment intended for use on plant or machinery is designed or protected to prevent direct, reflected, diffused, or secondary radiation exposure to operators or other individuals.

PREVENTING REFLECTIONS

Measures are taken to remove unnecessary objects from the vicinity of lasers to prevent unintended reflection of laser beams.

TREATMENT OF LIGHT CONDUCTING FIBRES

All light conducting fibres are considered live unless disconnected, powered down, shut off, or interlocked to prove otherwise, and workers understand and adhere to this protocol.

SAFE HANDLING OF OPTICAL DEVICES

Workers are aware not to directly look at the end of a fibre or aperture of any optical device capable of transmitting laser energy.

LASER CLASSIFICATION VERIFICATION

Workers ensure that laser classification is identified before engaging with laser equipment.

BEAM BLOCKING WHEN UNATTENDED

When lasers are unattended and powered on, necessary precautions, such as blocking beams at the source, are taken.

SAFE VISUAL EQUIPMENT

Visual equipment used for laser observation or adjustment does not pose a health or safety risk from laser light.

INSPECTION, CALIBRATION, AND TESTING

Laser equipment is inspected, calibrated, and tested in alignment with legal and manufacturer requirements.

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DEFECTIVE LASER HANDLING

Defective lasers are isolated, and a prominent and approved tag is affixed before any maintenance, repair, installation, or cleaning is performed.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Adequate PPE and equipment must be available and worn as required.

SAFE DISPOSAL OF FIBER OFFCUTS

Small fibre offcuts are disposed of in sharps containers to ensure safe disposal.

MANAGING LASER EXPOSURE

A well-defined system is in place to manage potential laser exposure and prevent eye injuries.

This guide establishes critical guidelines for the safe operation and handling of laser equipment within its premises. All persons, including contractors are expected to incorporate these guidelines into their HSEQ management systems and plans.

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