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# Electrical engineering control plan

The electrical engineering control plan is one of the key ‘plans’ that exists in the safety management system and it is an essential document in maintaining the safety of plant and equipment on site.

**The attached template is in Word format for you to customise for your site.**

1. **AIM:** You may use the standard aim statement provided in the template or edit it to suit your operation’s needs.
2. **WHAT:** All control plans generally begin with a risk-based review of the hazards associated with the activity. The electrical engineering control plan (EECP) is no different.

This risk assessment will be conducted by the mine manager and the nominated statutory electrical tradesperson.

1. **WHO:** It is important to identify all people who will be performing tasks associated with the electrical aspects of the sites plant and equipment.

Record who will be your regular auto electrician to work on extra low voltage installations.

Record who will be your nominated statutory electrical tradesperson and record their name in your management structure.

Record who will be your nominated statutory electrical engineer and include in the management structure. This is only a requirement if the site uses high voltage or a total connected power at the mine of greater than 1000kw.

1. **HOW:** Using (Form 11A) review all of the risks associated with the electrical aspects of the sites plant and equipment.

HINT: Involve a competent electrical tradesperson to assist in this risk assessment if possible.

After completing Form 11A, fill out an electrical register and have a competent electrical tradesperson test the equipment and record the results in Form 11B (in the template).

In conjunction with a competent electrical tradesperson, Form 11C should be completed with agreed testing actions and frequency of inspections. See example below.

1. **DOCUMENT CONTROL:** Depending on the size of your operation will dictate on the system used to record maintenance activities.

A smaller site may simply record information in the daily dairy, whereas larger sites may have an individual file or record book for each piece of plant.

Organise a file/book for each piece of plant and equipment if that is the record keeping method you choose.

1. **EMERGENCY PROCEDURE:** In the event of an emergency involving electricity such as electric shock, fire or explosion etc, refer to Program 9 Emergency plan

## References:

Work Health and Safety Regulation 2017, part 3.1 Managing risks to Health and Safety, clause 32-38

Work Health and Safety (Mines and Petroleum Sites) Regulation 2014, Part 2 Division 3 clause 26 (5) Electrical Engineering Control Plan

Work Health and Safety (Mines and Petroleum Sites) Regulation 2014, Part 2 Division 4 clause 32 Electrical Safety

Work Health and Safety (Mines and Petroleum Sites) Regulation 2014, Schedule 2 clause 3 - Principal Control Plans – Electrical Engineering Control Plan

Work Health and Safety Regulation 2017, clauses 148 – 151, 164-165, 166

Health and Safety in Quarries – Section 17 – Maintenance and Repairs

Section 12 Machinery and Equipment

Australian Standard AS/NZS 3000 – Electrical Installations, known as the Wiring Rules

Australian Standard AS/NZS 3007 - Electrical equipment in mines and quarries—Surface installations and associated processing plant

Australian Standard AS/NZS 3760 – In service safety inspection and testing of electrical equipment.