

# Key Risk Controls for Electrical Engineering Safety & Supporting Information

General information is available in: AS/NZS 3000, AS 3007 & Minerals Industry safety Handbook (section 4.8).  
**Note:** EES documents reference other standards.

**TABLE 2**

Electrical risk controls	Key Supporting Information
Electrical technology management systems incorporating incident investigation	EES001, AS/NZS4801
Competency	EES001, EES002, AS/NZS 4761
Fit for purpose (FFP) electrical plant.	EES001, EES011, AS4871 (U/G Mines), MDG15 (Mobile and Transportable Plant for Use in Mines – Surface applications), AS 4242 (Automotive wiring)
➤ Electrical protection	EES005
➤ Earthing and lightning protection	EES005
➤ Electrical plant (cables and apparatus) in non hazardous areas ➤ HV ➤ LV ➤ ELV	EES001, EES002, HB242 (in draft), EES011
➤ Control circuits & safeguards (Machine (M/C) Control circuits) ➤ Functional safety ➤ Field devices = ELV	MDG2005 (Winders), EES008 (Winders - in draft), EES009 (Winders - in draft), AS4024, AS/NZS4240, AS60204, AS61508, AS62061, EES011, <b>AS61511</b>
➤ Electrical plant (cables and apparatus) in a hazardous zone (includes gas monitoring)	EES003, EES010 (in draft), AS/NZS 60079, AS/NZS2290.1 & 3, AS/NZS2381, AS/NZS3800, AS/NZS 1020, EES007, AS/NZS1747, AS/NZS1802, AS/NZS1972 EES003, EES010 (in draft), AS/NZS 60079, AS/NZS2290.1 & 3, AS/NZS2381, AS/NZS3800, AS/NZS 1020, EES007, AS/NZS1747, <del>AS/NZS1802, AS/NZS1972</del>
➤ Signage	EES001
<b>Safe Procedures</b>	
➤ Hazardous zone classification and identification	EES003
➤ Removal/restoration of power procedures	EE006
➤ Isolation procedures	MDG40
➤ Electrical testing procedures	EES004, HB187
➤ Electric welding procedures	AS/NZS1674.2, WTIA TN 7-98, MDG25
➤ Electric shock and burn protocols	Development yet to commence.
➤ Use of portable apparatus U/G	EES004
➤ Use of remote controlled plant	AS/NZS4240, MDG5002
➤ High Voltage procedures	EES001, HB242 (In draft)
➤ Work near overhead lines	EES001, Workcover CoP