Relationship between Key risk areas & Key Risk Controls for Electrical Engineering Safety

Electrical Engineering Safety Risk controls	Electrical Engineering Safety Key Risk Area
Electrical technology management systems incorporating incident investigation	1,2,3,4,5,6,7,8,9,10
Competency	1,2,3,4,5,6,7,8,9,10
Fit for purpose (FFP) electrical plant.	1,2,3,4,5,6,7,8,9,10
➢ Electrical protection	1,2,3,4,5
➢ Earthing and lightning protection	1,2,3,4,5,9
➢ Electrical plant (cables and apparatus) in non hazardous areas ➢ HV ➢ LV ➢ ELV	1,2,6,7,8,9,10
➢ Control circuits & safeguards (Machine (M/C) Control circuits) ➢ Functional safety ➢ Field devices = ELV	1,2,3,4,5,9,10
➢ Electrical plant (cables and apparatus) in a hazardous zone (includes gas monitoring)	1,2,3,5,9,10
➢ Signage	1,2,3,5,9,10
Safe Procedures	
➢ Hazardous zone classification and identification	3,9,10
➢ Removal/restoration of power procedures	1,2,3,6,10
➢ Isolation procedures	1,2,3,4,5,6,7,8,9,10
➢ Electrical testing procedures	1,3,4,5,6,9
➢ Electric welding procedures	1,2,3,6,9
➢ Electric shock and burn protocols	1,10
➢ Use of portable apparatus U/G	1,3,9,10
➢ Use of remote controlled plant	5,10
➢ High Voltage procedures	1,2,3,10
➢ Work near overhead lines	1,10