

Task list

Apparatus	Scenario	Low Voltage Task examples	Allowed	Stage
Overhead Mains	Work on or near overhead conductors that are fixed in their usual position	Install/remove temporary insulation - for external parties working in the vicinity of overhead mains (under the WorkCover Code of Practice "Work Near Overhead Power Lines")	Yes	1
		Erect/remove/retension an overhead (OH) service	Yes	1
		Connect/disconnect an overhead service	Yes	1
		Make/break parallel or no-load conductor connections (bonds/taps/IDTs)	Yes	1
		Connect/disconnect temporary bonds/"jumpers"	Yes	1
		Install/connect/disconnect/remove/repair streetlighting assets	Yes	1
		Connection and disconnection of equipment for cable testing/identification/phasing to isolated LV apparatus within 500mm of temporarily insulated live exposed LV apparatus	Yes	1
		Erect/remove/retension overhead road crossing mains (to Ausgrid lead-in pole) - up to and including LV ABC 25mm <sup>2</sup>	Yes	1
		Connect/disconnect overhead road crossing mains (to Ausgrid lead-in pole) up to and including LV ABC 25mm <sup>2</sup>	Yes	1
		Install/remove overhead high voltage (HV) portable earthing equipment - to or through LV overhead mains.	Yes	1
		Connect/disconnect mobile generators - in accordance with Network Standard NS196	Yes	2
		Connect/disconnect measuring/recording instruments	Yes	2
		Repair conductor (not involving a change in conductor tension)	Yes	2
		Replace a conductor tie on a pin insulator	Yes	2
		Install/remove LV spreaders	Yes	2
		Remove vegetation/debris/animals from LV mains	Yes	2
		Replace LV links	Yes	2
		Work on isolated HV mains and apparatus (where the worker moves within MSWD of live LV)	Yes	2
	Movement of live exposed LV conductors under tension	Any task requiring the movement of a span of live exposed LV overhead mains	No	
		Any task requiring the application of a tensioning device on a span of live exposed LV overhead mains	No	
	Moving de-energised overhead conductors near live exposed LV	Erect/remove/restring/retension - exposed conductors	No	
		Erect/remove/restring/retension LV ABC conductors (other than services or road crossings)	No	
		Erect/remove/retension 'All Dielectric Self Supporting' (ADSS) fibre-optic cables near live exposed LV <i>Note: Refer to ESR Clause 10.1.4 for movement of conductors in the vicinity of live exposed conductors</i>	No	
	Fallen overhead conductors	Work on or near fallen live exposed conductors - when standing on the ground	No	
		Disconnect fallen live exposed conductor - working aloft	No	
	Fallen overhead services	Disconnect fallen live service - working aloft	Yes	1
		Cut away a fallen service - when standing on the ground - by a person trained as a 'Storm Responder'	Yes	1
	Poles & pole hardware	Move pole hardware between conductors (e.g ABS downrod)	Yes	2
Replace crossarm brace		Yes	2	
Tighten pole hardware		Yes	2	
'Cropping' a pole		Yes	3	
Erect/remove pole through exposed LV		No		
Pole changeover - exposed LV		No		
Replace a crossarm		No		
Erect/remove pole stay wire alongside or through live exposed LV	No			
UGOHs	Connect/disconnect parallel or no-load UGOH to OH mains connections (excluding CONSAC)	Yes	1	
	Connect/disconnect UGOH service to OH mains (excluding CONSAC)	Yes	1	
	Erect/remove UGOH service - live OH mains but isolated service	Yes	1	
	Erect/remove UG cable for UGOH - non conductive sheath	Yes	3	
	Erect/remove UG cable for UGOH - exposed conductive sheath or armour	No		
Transfer live UGOH from one pole to another	No			
Mains Connection Boxes (MCBs)	Work on OH mains connection box on a customer installation	No		
Pole Substations	General	Install/remove temporary insulation - for external parties working in the vicinity of overhead mains (under the WorkCover Code of Practice "Work Near Overhead Power Lines")	Yes	1
		Make/break parallel or no-load conductor connections (downstream from LV fuses)	Yes	1
		Erect/remove/retension a service	Yes	1
		Connect/disconnect a service	Yes	1
		Connect/disconnect measuring/recording instruments (excluding MDIs or DM&C)	Yes	2
		Work on isolated HV apparatus near temporarily insulated live exposed LV	Yes	2
		Replace substation LV apparatus (LV fuse assemblies, surge diverters, transformer leads)	No	
		Erect/replace a transformer tank	No	
Underground Mains	Pillars - other than the specific pillars listed below	Connect/disconnect a service	Yes	1
		Make/break parallel or no-load conductor connections - for solid connections of polymeric insulated cables - in pillars other than link pillars	Yes	1
		Connect/disconnect equipment for cable testing/identification/phasing to isolated LV apparatus within 500mm of temporarily insulated live exposed LV apparatus.	Yes	1
		Connect/disconnect measuring/recording instruments	Yes	2
		Pull de-energised service cable into a pillar with live exposed LV (cable ends must not be exposed)	Yes	2
		Pull de-energised LV distributor cable into a pillar with live exposed LV (cable ends must not be exposed)	Yes	2
		Replace a non-metallic pillar base (including for minor changes in ground level)	Yes	2
		Replace metallic pillar	No	
		Pillars (specific) - See NS199	Work on or near exposed live LV in the front of 'Town' style pillars	Yes
	Work on or near exposed live LV in the rear of 'Town' style pillars		No	
	Connect services in non-retrofitted link pillars		No	
	Work on or near exposed live LV in non-retrofitted steel framed URD pillars		No	
	Work on or near exposed live LV in non-retrofitted 'Menai' style pillars		No	
	Work on or near exposed live LV in 'Tom Thumb' style pillars		No	
	Work on or near exposed live LV in CSB style (Mackellar) pillars		No	
	Work on or near exposed live LV in SDP style (St George) Pillars		No	
	Work on or near exposed live LV in an Upper Hunter round style pillar		No	
	Work on or near exposed live LV in a non-retrofitted pillar-standard	No		
Work on ' Fargo ' UG connectors (Muswellbrook)	No			
Link boxes	Connect/disconnect equipment for testing/identification/phasing to isolated LV apparatus within 500mm of temporarily insulated live exposed LV apparatus.	Yes	1	
	Any other work other than operating, testing, or connecting identification & phasing equipment	No		
Pits/bays	Work on or near exposed live LV in a cable pit or joint bay	No		
	Work on or near exposed live LV in "pit & duct" systems (see NS199)	No		
Cables	Work on cores or sheath of CONSAC cable	No		

Electrical Safety Rules - Appendix A

Work on or near live exposed low voltage mains and apparatus

07/10/2020

Task list

Apparatus	Scenario	Low Voltage Task examples	Allowed	Stage	
Underground Mains		Work on underground cable with visible damage to the insulation	No		
		Cable jointing in a cable pit or joint bay	No		
		Carry out repairs to cable sheath	No		
	Standards	Work on or near exposed live LV in a retrofitted Pillar/Standards (refer NS199)	Yes	1	
		Work on or near exposed live LV in non-retrofitted Pillar/Standards (refer NS199)	No		
		Replace metallic column or pillar-standard	No		
	Services	Connect/disconnect a service in a pillar as permitted by Network Standard NS199	Yes	1	
		Work on bakelite service termination boxes on customer installations	No		
		Work on metal clad service enclosures 'Handbag connections'	No		
	Substations - Kiosk, Chamber, Basement, or Outdoor Enclosures	General	Erect/remove temporary insulation to live exposed LV - SAIF board busbar (rear of switchgear) in a Kiosk	No	
		Erect/remove temporary insulation to live exposed LV - other than SAIF or G & H type boards	Yes	1	
		Erect/remove temporary insulation to live exposed LV - G & H type boards	Yes	2	
		Connect/disconnect equipment for testing/identification/phasing to isolated LV apparatus within 500mm of temporarily insulated live exposed LV apparatus.	Yes	1	
		Connect/disconnect equipment for testing/identification/phasing to isolated distributor terminals on a SAIF LV board with the exposed busbar at the rear remaining live	Yes	3	
		Connect/disconnect mobile generator - as per Network Standard NS196	Yes	2	
		Connect/disconnect measuring/recording instruments - excluding MDIs or DM&C	Yes	2	
		Replace an MDI meter - where a permanent shorting link is installed (excluding SAIF boards)	Yes	3	
		Install/remove apparatus labels	Yes	2	
		Pull de-energised cable into a kiosk substation with temporarily insulated live exposed LV apparatus (cable ends must not be exposed)	Yes	2	
		Pull de-energised cable into a kiosk substation with SAIF LV board (cable ends must not be exposed). Note: MSWD from exposed busbar at rear of switchgear must be maintained, or exposed busbar must be isolated	Yes	2	
		Pull de-energised cable into a chamber substation within 500mm of temporarily insulated live exposed LV apparatus (cable ends must not be exposed)	Yes	2	
		Work, using live LV controls, on or near de-energised direct distributors where isolation from the customer switchboard is not possible	Yes	2	
		Make or break isolated LV cable connections to isolated distributor terminals within 500mm of temporarily insulated live exposed LV apparatus (other than SAIF or G & H type boards)	Yes	1	
		Make or break isolated LV cable connections to isolated distributor terminals within 500mm of temporarily insulated live exposed LV apparatus (G & H type boards)	Yes	2	
		Make or break isolated LV cable connections to isolated distributor terminals on a SAIF LV board with the exposed busbar isolated (other distributor cables may remain live if insulated in accordance with DG182)	Yes	2	
		Make or break isolated LV cable connections to isolated distributor terminals on a SAIF LV board with an enclosed rear busbar (other distributor cables may remain live if insulated in accordance with DG182)	Yes	2	
		Make or break isolated LV cable connections to isolated distributor terminals on a SAIF LV board with the exposed busbar remaining live	Yes	3	
		Connect/disconnect temporary "Jumper" cables in Sydney CBD substation enclosed boards	Yes	3	
		Connect/disconnect temporary "Jumper" cables in Sydney CBD substation exposed boards	No		
		Drill a hole in live LV switchgear/board	No		
		Install Maximum Demand Indicators (MDIs) or Distribution Monitoring and Control (DM&C) equipment	No		
		Make or break live conductor connections	No		
		Install/remove/replace LV fuse strip	No		
		Work behind E-type boards in a chamber sub - as per DG182 (due to arc hazard)	No		
		Replace transformer (tank) in a kiosk or chamber substation	No		
		Replace LV board or panel in kiosk or chamber substation	No		
		Replace kiosk housing	No		
Zone Subs		General	Install/remove temporary insulation	Yes	2
			Work near live exposed LV covered by temporary insulation	Yes	2
		Accessing/working in substation tunnel boards with exposed LV covered with temporary insulation	Yes	2	
		Working on 240Vdc intertrip batteries	Yes	3	
Streetlights	General	Install/remove temporary insulation to overhead street lighting conductors	Yes	1	
		Lamp and PE cell replacement	Yes	1	
		Install/replace/remove streetlight bracket	Yes	1	
		Connect/disconnect/ luminaire	Yes	1	
		Erect/remove/connect/disconnect pole-mounted streetlight control point (SLCP)	Yes	1	
		Replace luminaire (live)	No		
		Any work on or near live exposed LV conductors in a metallic streetlight standard	No		
		Work on or near exposed live LV in non-retrofitted Pillar/Standards (refer NS199)	No		
		Replace metallic streetlight standard column or pillar-standard	No		
	Any work on or near live exposed LV conductors in a metallic streetlight control point (SLCP)	No			
Customer Switchboards		Regulated disconnection/reconnection and metering tasks on behalf of Ausgrid	Yes	2	
ELV		Work on live exposed Extra Low Voltage (ELV) conductors	Yes	2	