



National Certificate in Electricity Supply (Line Mechanic Transmission) with optional strands in E1 and E2

level of qualification: 4

credit total: 83

Purpose and content of the National Certificate

Purpose:

This National Certificate will enable trainees to rig electrical network structures, install and replace electricity network pole structures, and joint electricity network overhead conductors amongst other tasks undertaken by Transmission Line Mechanics. In addition optional strands provide the opportunity to gain further specialist transmission line skills. This qualification has been mapped against the Transpower TPSS 06.20 competencies. It forms the final part of a pathway for trainees who seek to become Transmission Line Mechanics in the electricity supply industry and entitles the holder to apply for registration.

Content:

Compulsory unit standards

chainsaw operating

		level	credit
6917	Operate a chainsaw	3	5

Civil Infrastructure Health, Safety, and Environment

20877	Demonstrate knowledge of working safely at sites under temporary traffic management	2	1
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core skills

10509	Climb and work on electricity network structures	3	6
17025	Carry out a rescue from an electrical structure	3	2
18273	Demonstrate knowledge of the sources, origin, basic composition, and properties of electricity	2	5
18276	Operate light lifting and rigging equipment in the electricity supply environment	2	2
24746	Rig electrical network structures	4	6

distribution networks

10510	Use lines machinery plant and equipment in an electricity network environment	4	6
10512	Joint electricity network overhead conductors	3	4
10521	Install and replace electricity network pole structures	4	10
12295	Apply earths to and remove earths from overhead electric line conductors	3	4



		level	credit
transmission networks			
20420	Replace transmission tower steel	4	6
24747	Install and replace insulators and fittings	4	5
24749	Restore electricity network lines using emergency structures	4	10
health and safety practice			
17600	Explain safe work practices for working at heights	3	3
17602	Apply hazard identification and risk assessment procedures in the workplace	3	4
driving knowledge and skills			
17978	Operate a light four wheel drive (4WD) vehicle in an off-road environment	3	4
E1 Optional strand			
core skills			
18272	Operate power-operated elevating work platforms (EWP) in a electricity supply environment	3	5
testing			
14284	Carry out soil resistivity tests for high voltage earth system	3	5
heavy haulage			
23891	Use a vehicle-mounted winch in heavy haulage operations	4	7
driver educator			
14515	Demonstrate knowledge of off-road motorcycle performance, design, and handling characteristics	4	6
E3 Optional strand			
outdoor equipment			
423	Work with helicopters	3	3
testing			
14287	Use and maintain test instruments used within the high voltage electrical industry	3	4
transmission networks			
18025	Reconduct and install electricity network overhead conductors over 50kV	4	10
20419	Use a conductor trolley on de-energised transmission line conductors	4	3



		level	credit
24680	Plan and manage helicopter overhead lines operations	5	10
24681	Demonstrate knowledge of, and carry out, implosive jointing of electricity network overhead conductors	4	2
24748	Erect electricity transmission towers	4	10