

Course Pre-Requisites and Course Criteria

Rev 60 24/08/2023

To qualify to attend a course the prerequisites must be met according to the below list and sent with your course application form.

The Pre-requisites are set out as per each training module and in Eskom standards and approved by the relevant Scott:

<u>Medium Voltage Operating Training Curriculum</u>			
1	Supervision in Electrical Hazardous Areas ELW 001	• ORHVS Awareness HVA 01 • Pre-Job Planning and Risk Assessment PRE 02b / HIRA	1.5 days
2	Equipotential Earthing Level 2 OL2 02	• ORHVS Awareness HVA 01 • Pre-Job Planning and Risk Assessment PRE 02b / HIRA	3 days
3	ORHVS Level 1 HVO 1 (Access And Supervision)	• ORHVS Awareness HVA 01 or Previous ORHVS certificate • Pre-Job Planning and Risk Assessment PRE 02b / HIRA	1 day
4	ORHVS Level 2 HVO 2 (Responsible Person)	• ORHVS HVO 01 • Supervision of People in Hazardous Areas ELW 001 • Pre-task planning and Risk Assessment PRE 02b / HIRA	1 day
5	ORHVS Level 4 HVO 4 (Appointed Operator)	• ORHVS HVO 02 and • Equipotential Earthing Level 2 OL2 02 and • Electrical Qualification Or • Current and Valid MV Authorisation. Or • Fundamentals of Electricity Or • NTS 3 in Electrical Trade Theory	3 days
6	PTO&W and PTS OL4 002	• ORHVS HVO 04	1.5 days

7	Basic Power System Protection STO ESTO 012	• Fundamentals of Electricity Or • NTS 3 in Electrical trade theory Or • Electrical Qualification And • Outcome 2 Authorised	2.5 days
8	Basic Power System Protection PTO EPTO 021	Fundamentals of Electricity Or • NTS 3 in Electrical trade theory Or Electrical Qualification And Outcome 4b Authorised And • Basic Power System Protection STO ESTO 012	2.5 days
9	Operate on Medium voltage networks (11kV-44Kv) L4E 11	• ORHVS HVO 04 • Basic Power System Protection STO ESTO 012 • Outcome 2 Authorised	4 days
10	Operate on High voltage networks (66kV-132Kv) L4E 12	• Operate on Medium voltage networks (11kV-44Kv) L4E 11 • Basic Power System Protection STO ESTO 012 and PTO EPTO 021 • Outcome 4b Authorised	4 days
11	Phasing 110V to 132kV ESTO 004 (Theory only)	• Outcome 4b Authorised	1.5 days

Low Voltage Operating Training Curriculum

12	Low Voltage Operating Regulations LVOR 001	• Electrical measuring instruments or • Electrical Qualification or • NTS 3 in Electrical Trade theory or • Valid Lv Operator authorisation and • Pre-task Planning and Risk Assessment PRE 02b / HIRA • Supervision in electrical hazardous areas (ELW 001)	2 days
13	Operate on Low Voltage Networks LVOP 001	• Fundamentals of Electricity or • Electrical Qualification or • NTS 3 in Electrical Trade theory or • Valid Lv Operator authorisation and • LV Operating Regulations LVOR 001 • Pre-task Planning and Risk Assessment PRE 02b / HIRA • Working at Heights • Ladder Safety • Supervision in electrical hazardous areas (ELW 001)	3 Days

14	Performing Work on Energized (LV) Networks L3E 06	• Fundamentals of Electricity - or • Electrical Qualification - or • NTS 3 in Electrical Trade theory - or • Valid Lv Operator authorisation and • LV Line Construction ELW 011 • Operate on Low Voltage Networks LVOP 001 • Split Pre-paid metering OTO 06g • LV Operating Regulations LVOR 001 • Pre-task Planning and Risk Assessment PRE 02b / HIRA • Working at Heights • Ladder Safety • Supervision in electrical hazardous areas (ELW 001)	5 days
----	---	--	--------

Pre-Requisites for Construction Curriculum

No	Course Name	Prerequisites	
15	Health, Safety and Quality at the Workplace PRE 02a	None	3 days
16	High Voltage Environment and Regulations Awareness HVA 01	None	1.5 days
17	Pre-Job Planning and Risk Assessment PRE 02b	None	1.5 days
18	Work at Heights	• Health, Safety and Quality at the Workplace PRE 02a • Valid Medical Certificate • ORHVS Awareness HVA 01 • Pre-Job Planning and Risk Assessment PRE 02b / HIRA	3 days
19	Ladder Safety	• Health, Safety and Quality at the Workplace PRE 02a • Working at Heights • ORHVS Awareness HVA 01 • Pre-Job Planning and Risk Assessment PRE 02b / HIRA	3 days

20	Transportation of Material and People PRE 005	• Health, Safety and Quality at the Workplace PRE 02a • Pre-Job Planning and Risk Assessment PRE 02b / HIRA	2 days
21	Ensure Safety at Roadside Work US 13622c	• Health, Safety and Quality at the Workplace PRE 02a • Pre-Job Planning and Risk Assessment PRE 02b / HIRA	3 days

22	Basic Workshop Modules • Select, Use and Care for Electrical Measuring and Testing Instruments US10237 • Identify, Inspect, Use and Care for Engineering Hand Tools L2C 02 • Select, Use and Care for power tools L2C 09 • Basic Measurements and Marking Out L2C 03 • Design and Construct Single Phase Circuits	• Health, Safety and Quality at the Workplace PRE 02a • Pre-Job Planning and Risk Assessment PRE 02b / HIRA	25 days
23	• Fundamentals of Electricity L2C 01 (Must complete assessment A and B to be certified)	Grade 10 with Mathematics and Science	10 days

Core Line Construction Training Curriculum

24	Core Line Construction Modules • Servitudes and Wayleaves ELW 002 • MV ID & Assembly ELW 004 • Excavation of Pole and Stay Holes ELW 003 • Planting of Poles and Stays ELW 005 • MV/LV Crimping ELW 006 • LV Cables ELW 012	• Pre-Requisites (part 15 to 22)	42 days
----	--	--	---------

Medium Voltage Construction Training Curriculum

25	MV Line Construction Modules • MV Stringing, Tensioning and Jumpers ELW 007 • Transformer Theory and Components ESTO 011 • MV Installation of Pole Mounted Trfr ELW 008 • Earth Electrode Installation and Testing ELW 010 • MV Clerking and Handover ELW 009	• Pre-Requisites (part 15 to 23) • Core Line Construction Modules (part 24)	30 days
26	MV Line Inspection MVLM 001	• MV Line Construction (part 25) or • 5 Years MV Authorised at least outcome 4(b)	5 days
27	Wood Pole Testing and Inspection MVLM 002	• MV Line Construction (part 25) or • 5 years related experience (as per OHS Act)	3 days
28	Earth Electrode Resistance Testing (Lines) ELW 010	• Fundamentals of Electricity Or • Electrical Qualification • If no qualification must do Electrical Measuring Instruments	2 days
29	Inspect and Clean Substation Yards SSM 001 and SSM 010	• Valid Authorisation Outcome 5 • Basic Power System Protection STO ESTO 012 • Basic Power System Protection PTO EPTO 021	5 days
30	Maintain Substation Earthing System SSM 007	• Electrical Measuring instruments or Relevant electrical qualification • Valid Authorisation for Access Outcome 1	4 Days
31	MV/HV 100 Ton Crimping	• MV/LV Crimping and Connectors ELW 006	3 days

Low Voltage Construction Training Curriculum

32	LV Line Construction ELW 011	• Pre-Requisites (part 15-22) • Core Line Construction Modules (part 24)	10 days
33	LV Line Inspection L2E 06	• LV Line Construction ELW 011 or 5 years LV authorised as a LV Operator	4 days
34	Split Pre-paid Metering OTO 06g	• LV Operating Regulations LVOR 001 • Operate on Low Voltage Networks LVOP 001 • Pre-task Planning and Risk Assessment PRE 02b / HIRA	3 days