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Policy Newsletter

August 2023

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August policy updates

Ref	Issue	Title
CP306	5	Fitting Manual
CP411Pt1N	16	LV Cable Jointing Manual
CP423	6	Linesman's Manual – Live Line Working
CP430 Pt1	9	Linesman's Manual – Dead Working

Major policy updates

CP306 – Fitting Manual

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INSULATING OIL SAMPLING | CP306 FM5_003

1 Amendment Summary

Issue No	Date	Description
(Note Amendment Summary only introduced from Issue 2 onwards)		
2	July 23	Amendment Summary Added as Section 1. Additional PPE added to Section 3 for Oil sampling. Risk Assessment Section updated to cover Good Hygiene Practices. New Section 6 added on PCBs. New Section 7 added on Good Hygiene Practices. Subsequent Sections re-numbered.

July 23

2 Scope/Application

The reason for sampling oil used in transformers and switchgear is to check its electrical strength, moisture content, acidity and for the presence of fibres. An oil sample can also be used to determine the condition of insulation particularly in transformers, for instance by using dissolved gas in oil techniques Also samples may be required for detailed analysis during post fault investigations.

Great care must be taken during sampling to ensure that the sampling process itself does not contaminate the oil drawn off.

3 Safety Information

	WARNING: Live Electrical Systems – Use Live Work Techniques/Procedures/PPE for those activities carried out or near equipment that could be live.		
	MANDATORY: Work shall be carried out in accordance with General Requirements in Section 1. Approved mandatory PPE and work wear shall be in accordance with General Requirements in Section 1. Additional Approved PPE and work wear required to complete this task are specified below.		
	Disposable oil resistant coveralls over the Arc Resistant overalls for all Transformers pre-1987.		Full Face Visor whilst taking the sample.
	Oil resistant disposable gloves and barrier cream (to be used at the point of work where there is a risk of contact with insulating Oil).		

The task covered by this procedure has significant hazards associated with it identified by the symbol and text **WARNING:**

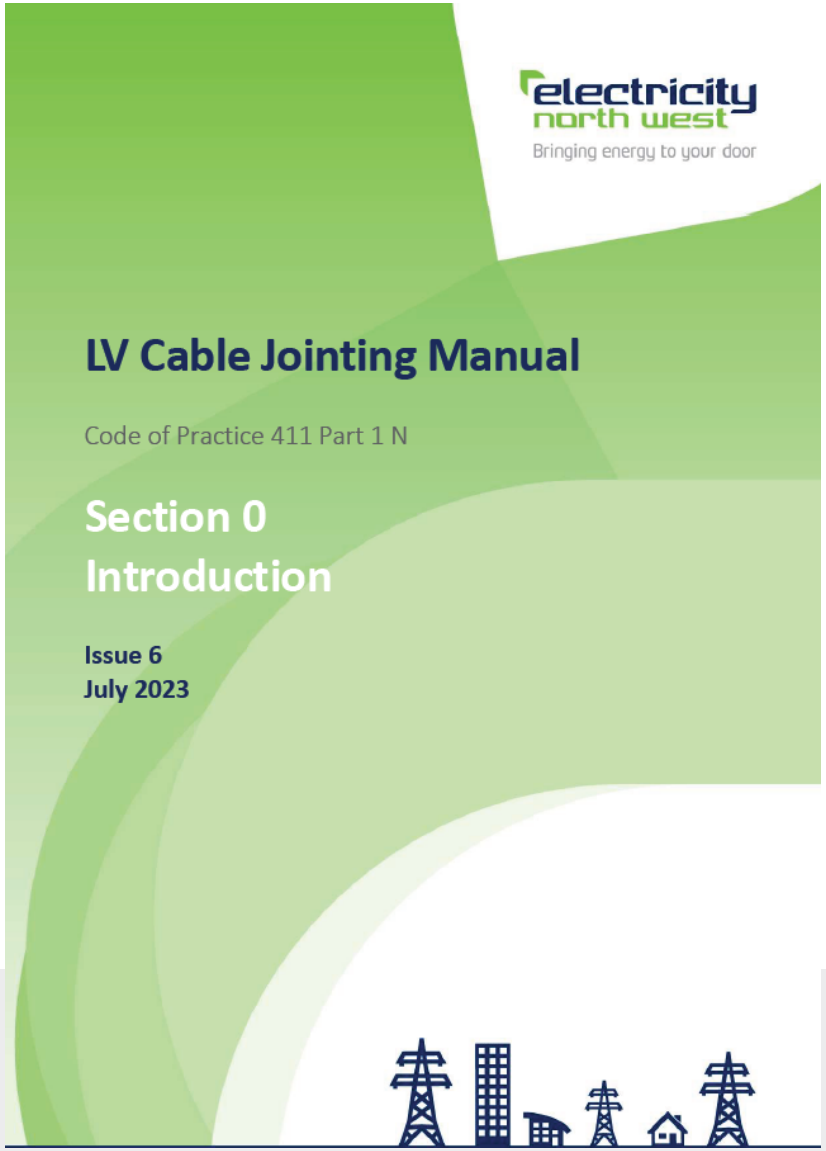
July 23

CP updated to following the recent issue of Policy Instruction 22-06-23 on the PPE requirement for taking Oil Samples.

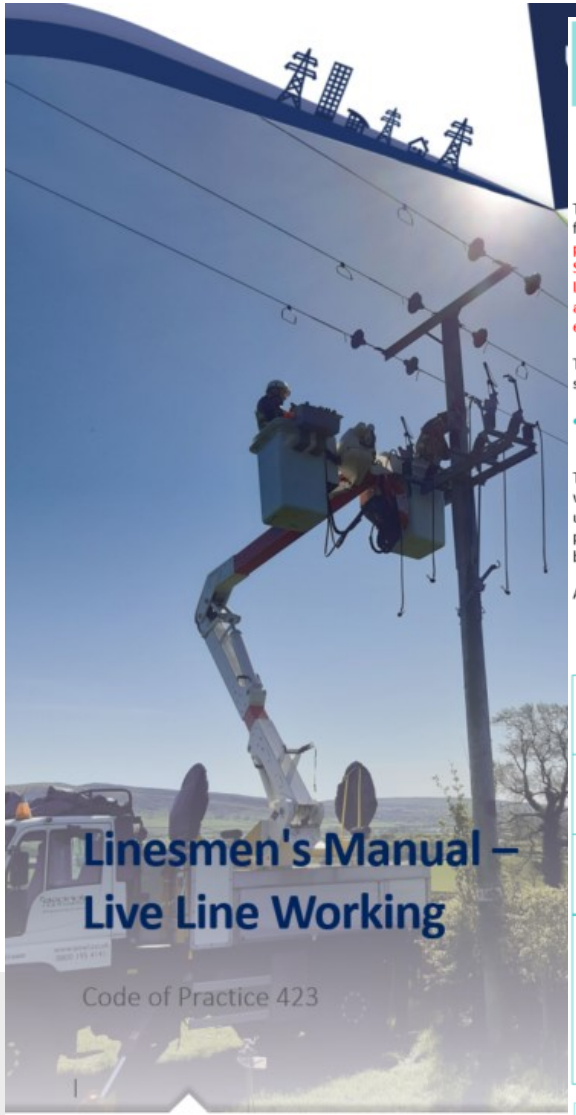
CP411 Pt1N – LV Cable Jointing Manual

These updates represent final amendments to the LV jointing manual, after which, no further changes will be made until next document review (in 12 months' time).

The document on the print portal will be updated to reflect these changes and a series of briefings/workshops will be held around depots with Delivery managers and jointers to highlight the latest changes and ensure everyone is aware of how to access the manual in both hard copy and electronic format.



CP423 – Linesman's Manual – Live Line Working



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CUTTING HV JUMPERS (LIVE WORK)

LL Technique 866

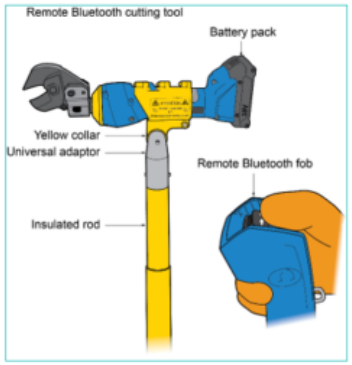
1 Scope/Application

This LL Technique covers the cutting of HV jumpers from the ground or pole. Although the line must be proved Dead prior to cutting (refer to the Work Sequence below), this is NOT Dead work, therefore, Live line precautions must be complied with in accordance with this manual. Note that portable earths are NOT applied for this procedure.

The remote Bluetooth cutting tool (HV cutter) is suitable for cutting the following conductor types:

- ACSR, copper and aluminium up to 20mm diameter.

The HV cutter is secured in position by a yellow collar which is fitted to an insulated operating rod via a universal fitting adaptor. The HV cutter is battery powered and is operated remotely from the ground by clicking a Bluetooth fob.



A LED is incorporated in the HV cutter if more illumination is required.

2 Safety Information

	Work shall be carried out in accordance with General Requirements in Section 1. Approved mandatory PPE and work wear shall be in accordance with General Requirements in Section 1. Additional Approved PPE and work wear required to complete this task are specified below.		
	HV gloves (Class 2) (also referred as 11kV gloves) and glove protectors		Yellow wellingtons (Type C) for work from ground
	Cut resistant gloves for handling the HV cutter on the ground		

The task covered by this LL Technique has significant hazards associated with it identified by the symbol and text **WARNING:** ⚠

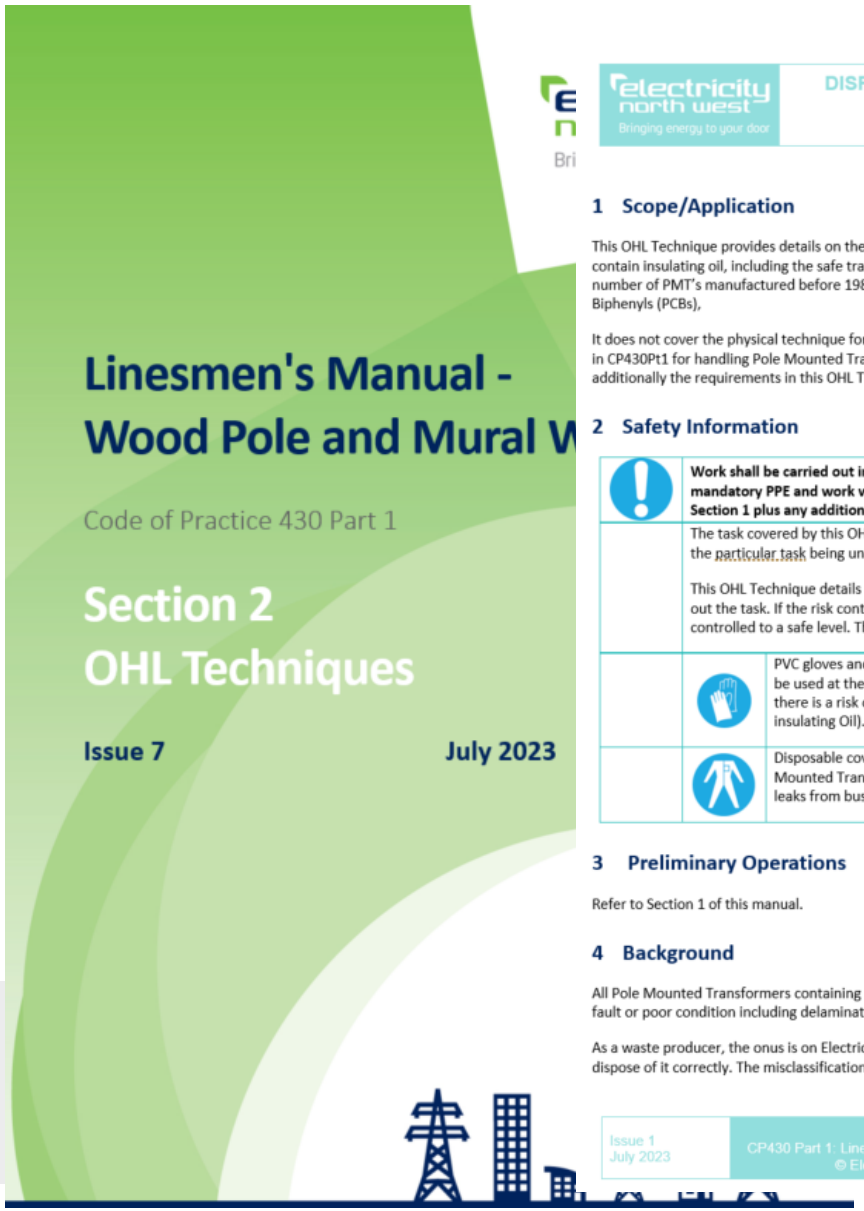
This LL Technique details the risk control measures that must be applied when carrying out the task. If the risk control measures in this procedure are implemented the risks will be controlled. This LL Technique also forms the method statement for the task.

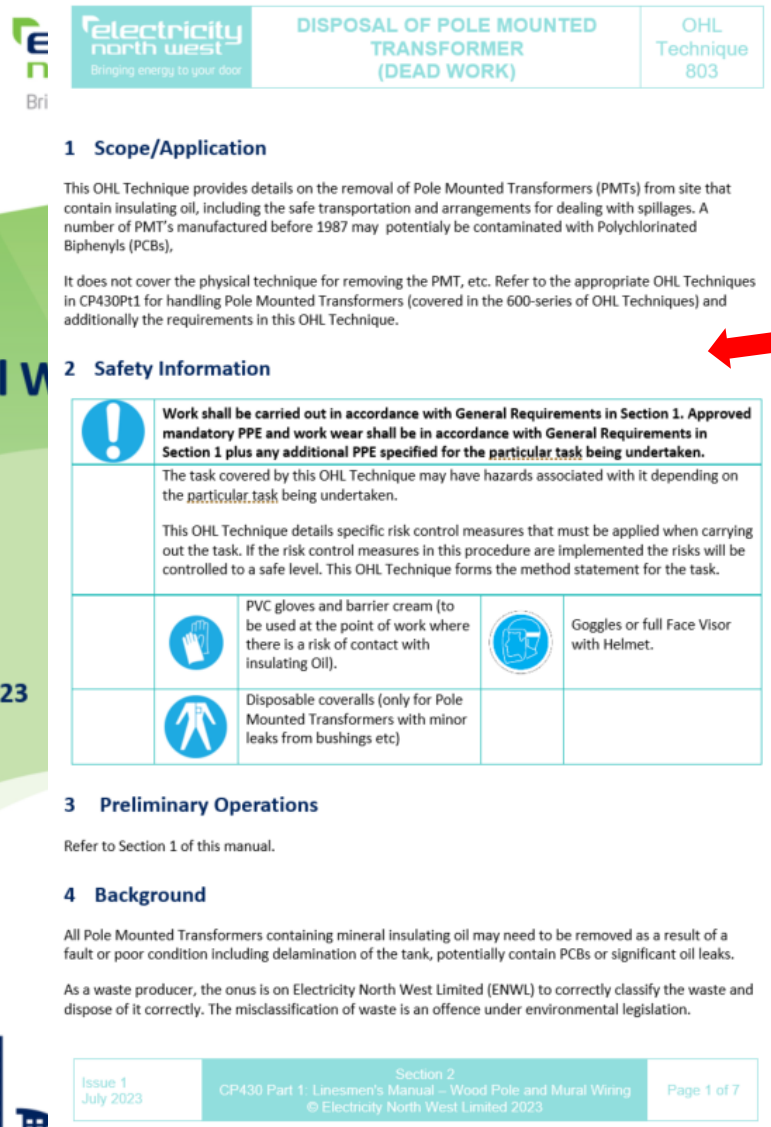
NEW POLICY ALERT

New Overhead live line Instruction and Technique for cutting HV jumpers using operating rods and bluetooth cutter. Located in Section 2 & 3.

This is to make a point of isolation (POI) on the OHL network without the requirement to issue a PTW and therefore quicker restoration of customers before the fault and the need to Work at Height. Once the downstream fault, beyond POI, has been repaired the HV jumpers would be reconnected under a PTW.

CP430 Pt1 – Linesman's Manual – Dead Working





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DISPOSAL OF POLE MOUNTED TRANSFORMER (DEAD WORK)

OHL Technique 803

1 Scope/Application

This OHL Technique provides details on the removal of Pole Mounted Transformers (PMTs) from site that contain insulating oil, including the safe transportation and arrangements for dealing with spillages. A number of PMT's manufactured before 1987 may potentialy be contaminated with Polychlorinated Biphenyls (PCBs),

It does not cover the physical technique for removing the PMT, etc. Refer to the appropriate OHL Techniques in CP430Pt1 for handling Pole Mounted Transformers (covered in the 600-series of OHL Techniques) and additionally the requirements in this OHL Technique.

2 Safety Information

Work shall be carried out in accordance with General Requirements in Section 1. Approved mandatory PPE and work wear shall be in accordance with General Requirements in Section 1 plus any additional PPE specified for the particular task being undertaken.

The task covered by this OHL Technique may have hazards associated with it depending on the particular task being undertaken.

This OHL Technique details specific risk control measures that must be applied when carrying out the task. If the risk control measures in this procedure are implemented the risks will be controlled to a safe level. This OHL Technique forms the method statement for the task.

	PVC gloves and barrier cream (to be used at the point of work where there is a risk of contact with insulating Oil).		Goggles or full Face Visor with Helmet.
	Disposable coveralls (only for Pole Mounted Transformers with minor leaks from bushings etc)		

3 Preliminary Operations

Refer to Section 1 of this manual.

4 Background

All Pole Mounted Transformers containing mineral insulating oil may need to be removed as a result of a fault or poor condition including delamination of the tank, potentially contain PCBs or significant oil leaks.

As a waste producer, the onus is on Electricity North West Limited (ENWL) to correctly classify the waste and dispose of it correctly. The misclassification of waste is an offence under environmental legislation.

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NEW POLICY ALERT

New Overhead line Technique for Disposal of PMT

The removal of Pole Mounted Transformers (PMTs) from site that contain insulating oil without or with possible low levels of Polychlorinated Biphenyls (PCBs) including the safe transportation and arrangements for dealing with spillages.