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Policy Newsletter

May 2023

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May policy updates

Ref	Issue	Title
CP411 Pt1N	15	LV Cable Jointing Manual
CP423	4	Linesman's Manual – Live Line Working
CP606 A10	19	Tree Work and Vegetation Clearance in Proximity to Live Overhead Lines
CP608	23	System Control Manual
ES400C14	6	Specification for 132kV XLPE Insulated Cables
ES400E5	7	Installation Commissioning and Repair of Underground Cables Operating at 33kV and 132kV
CP420 Pt1	19	Policy and Practice for Wood Pole Overhead Lines
CP421	10, 11, 11 & 4	Maintenance and Refurbishment of Overhead Lines – HV Mains Supported by Poles

May policy updates

Ref	Issue	Title
CP430 Pt1	8	Linesman's Manual – Dead Wood Pole
CP606 A11	19	Operations Manual
CP614	36	Authorisation
EPD307	25	Equipment Approved for Use on Electricity North West Network

May archived policies

Ref	Issue	Title	Reason for Archive
CP420 Pt Ch17	N/A	Line Patrol	No longer needed and replaced with another document.
CP420 Pt 1 Appendix A	4	Overhead Line Structures: Classification	No longer needed and replaced with another document.
CP420 Pt 1 Appendix B	2	Pole Top Termination	No longer needed and replaced with another document.
CP420 Pt 1 Appendix C	2	Guidance for the Use of Signing, Lighting and Guarding Equipment for Overhead Line Work	No longer needed and replaced with another document.
CP606 A11	16	Appendix F – High Voltage Live Line Working – Insulated Aerial Device Check Sheet	No longer needed.

Major policy updates

CP411 Pt1N – LV Cable Jointing Manual

7 Fitting new single pole units and neutral blocks above existing cut-out (by use of insulated tunnel connectors)

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This applies to metal clad cut outs where the unit is combined (i.e. cable chamber and fuse ways in one casing), and there are porcelain fuse holders which do not have a suitable bottom terminal to connect a new meter tail onto, but the fuse holders can be easily removed.

If a specific risk assessment has found it is difficult or impossible to replace the complete cut-out then if the cut-out design and available space allows, a new 100A Single Pole cut-out and neutral block can be fitted above the existing cut out and new 25mm² tails fitted on the bottom connection on the old cut out using insulated tunnel connectors.

Example: Old ISCO unit with twin porcelain fuse carriers (rewireable).
The porcelain fuse holders are retained to the base by two screws in each base.
(No shrouding is shown for clarity)

The porcelain fuse holders are removed, and insulated tunnel connectors are used to connect new tails from the cable connections through to new cut out and neutral block mounted above.

Materials Required:	
Insulated Connector Block	071855
100A SP Fused Cut-Out	065456
Insulated Tunnel Connector (4-35mm²)	161010
Insulating Rubber Patch	168386
25mm² double insulated copper meter tails	356042 (Blue/grey) 356085 (Brown/Grey)
Universal Shroud	792312
"THIS IS NOT A FUSED NEUTRAL" label	195160

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Update of this Standard Technique to introduce new method for "hard wiring" old ISCO cut outs using insulated tunnel connectors.

This procedure is necessary to allow ENWS to remove an amount of fused neutrals without the lengths and costly replacement of the legacy cut out.

5 Replacing an existing separate fuse unit with new single pole units and neutral blocks. ("Top & Block" partial replacement)

This procedure can be achieved if the fuse holders/blocks are separate units to the cable chamber below them and can be easily removed.

Where the cut out is a combined unit where separation of the fuse/blocks is not possible, then consider Sections 6 or Section 7 to hard wire new tails through the unit.

Below are some examples of where Top & Block is acceptable after a specific risk assessment has found it is difficult or impossible to replace the complete cut-out.

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CP423 – Linesman's Manual – Live Line Working

5 LV Live Line Work

5.1 Live Working

The preferred method of working on LV Systems is with the Conductors Dead, Isolated and Earthed bonded.

Work **shall** be carried out **Dead** at all times, unless it can be reasonably justified that **LV Live Line working** will reduce disruption to customer supplies and can be carried out safely.

In all cases, **LV Live Line working** shall be strictly carried out in accordance with:

- The current edition of Electricity North West's Distribution Safety Rules.
- Electricity North West's policy for Live working on LV (see CP605 Section 4, Procedure 4.2).
- Approved Live Line Instructions and Techniques for **LV Live Line working** in Section 2 and 3 of this Manual.
- Approved procedures for testing in CP606

5.2 Requirements for Live Working

The following requirements **shall always be met** for carrying out work on Live LV overhead lines.

- A POWRA shall be carried out to assess whether Live working is appropriate. Refer to the decision chart to Justify (section 5.3) working live in the next section ,and ensure all reasons are recorded on the POWRA.
- Site conditions shall be continually assessed to ensure a safe working area is maintained at all times. Should circumstances change meaning the risks become unacceptable, then the work shall be stopped immediately to re-assess if additional control measures or working dead shall be implemented.
- The work shall be carried out in accordance with the Approved procedures.
- The person(s) carrying out the work shall hold appropriate Authorisation in writing for Live LV working (see Authorisation Codes in CP614).
- Approved insulated tools and equipment shall be used at all times.
- Approved insulating gloves shall be worn.
- All LV conductors and steelwork within the working zone shall be covered with Approved shrouding, unless they are being worked upon and steps have been taken to prevent contact with Live conductors.

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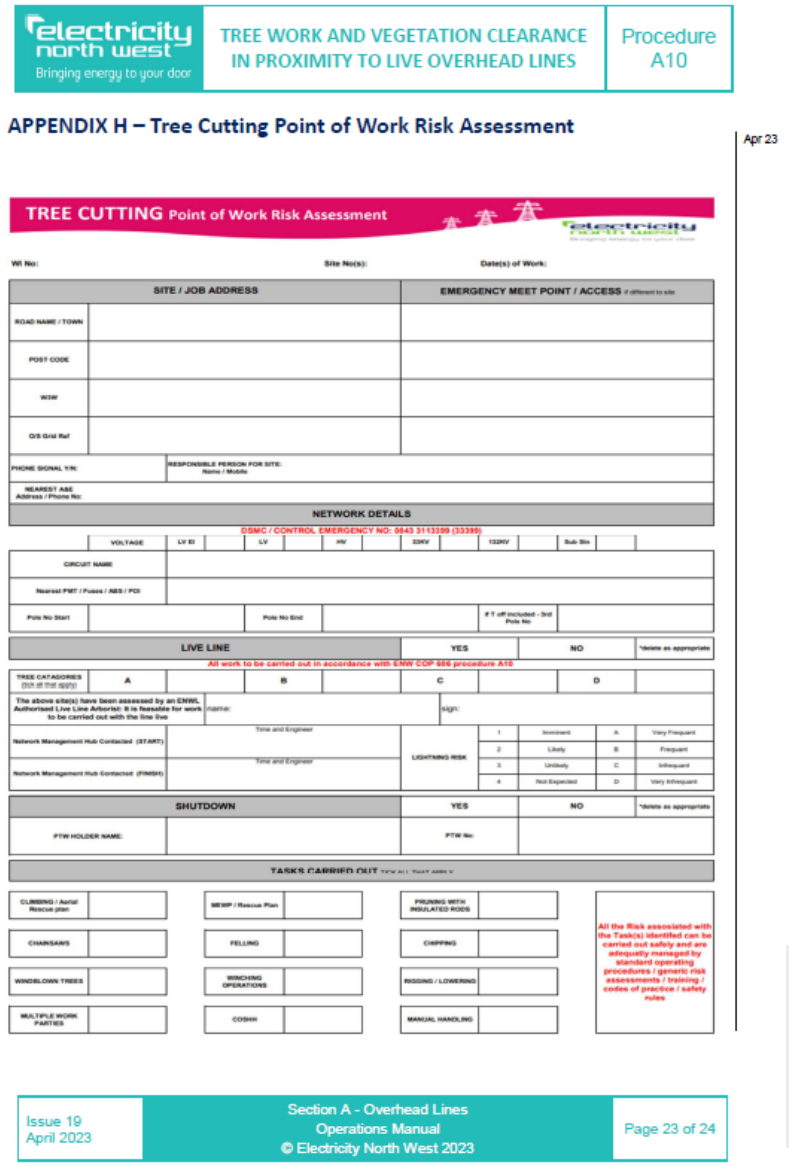
Section 1 and LL Technique 010 – Justification for LV Live Line working added.

LL Technique 018 – IAD checks moved from CP606 A11.

LL Technique 863 and LL Technique 864 – Minor amendment to number of persons required.

CP606 A10 – Tree Work and Vegetation Clearance in Proximity to Live Overhead Lines

- Amendments to allow mechanical plant for tree cutting with the use Dedicated Safety Observer with remote cut off.
- Additional amendments for cutting Category A, B & C Trees.
- Electrical risk assessment combined into a Tree Cutting POWRA to stream the process.
- Application Guide – To be update to align with Policy update.



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TREE WORK AND VEGETATION CLEARANCE IN PROXIMITY TO LIVE OVERHEAD LINES | Procedure A10

APPENDIX H – Tree Cutting Point of Work Risk Assessment Apr 23

TREE CUTTING Point of Work Risk Assessment

WI No: Site No(s): Date(s) of Work:

SITE / JOB ADDRESS	EMERGENCY MEET POINT / ACCESS
ROAD NAME / TOWN	
POST CODE	
W3W	
OS Grid Ref	
PHONE SIGNAL Y/N:	RESPONSIBLE PERSON FOR SITE: Name / Mobile
NEAREST A&E Address / Phone No:	

NETWORK DETAILS

DSMC / CONTROL EMERGENCY NO: 0843 3113399 (33399)

VOLTAGE	LV EI		LV		HV		33kV		132kV		Sub Stn	
CIRCUIT NAME												
Nearest PMT / Fuses / ABS / FCI												
Pole No Start		Pole No End				# T off included - 3rd Pole No						

LIVE LINE	YES	NO	*delete as appropriate

All work to be carried out in accordance with ENW COP 606 procedure A10

TREE CATAGORIES (tick all that apply)	A		B		C		D	

The above site(s) have been assessed by an ENWL Authorised Live Line Arborist: It is feasable for work to be carried out with the line live — name: — sign:

	Time and Engineer	LIGHTNING RISK				
Network Management Hub Contacted (START)			1	Imminent	A	Very Frequent
Network Management Hub Contacted (FINISH)	Time and Engineer		2	Likely	B	Frequent
			3	Unlikely	C	Infrequent
			4	Not Expected	D	Very Infrequent

SHUTDOWN	YES	NO	*delete as appropriate
PTW HOLDER NAME:	PTW No:		

TASKS CARRIED OUT (tick all that apply)

CLIMBING / Aerial Rescue plan		MEWP / Rescue Plan		PRUNING WITH INSULATED RODS		All the Risk associated with the Task(s) identified can be carried out safely and are adequately managed by standard operating procedures / generic risk assessments / training / codes of practice / safety rules	
CHAINSAWS		FELLING		CHIPPING			
WINDBLOWN TREES		WINCHING OPERATIONS		RIGGING / LOWERING			
MULTIPLE WORK PARTIES		COSHH		MANUAL HANDLING			

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CP608 – System Control Manual

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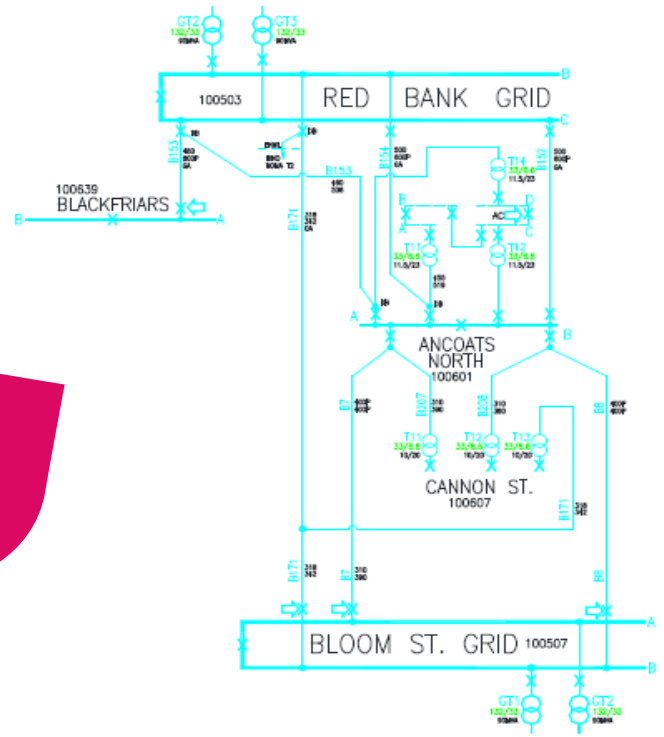
OPERATIONAL PROCEDURE NO. 85

RED BANK GRID 100503 AUTO LOAD REDUCTION SCHEME

1. INTRODUCTION

This document refers to the Auto Load Reduction (ALRS) scheme installed on the B154 Ancoats North / Ancoats North T11 CB at Red Bank Grid that will Auto Open the Cannon Street T11, T12 and T13 6.6kV CB's.



NEW POLICY ALERT!

New OP85 added to CP608 Section 6 for Redbank B154 ALRS Scheme recently installed.

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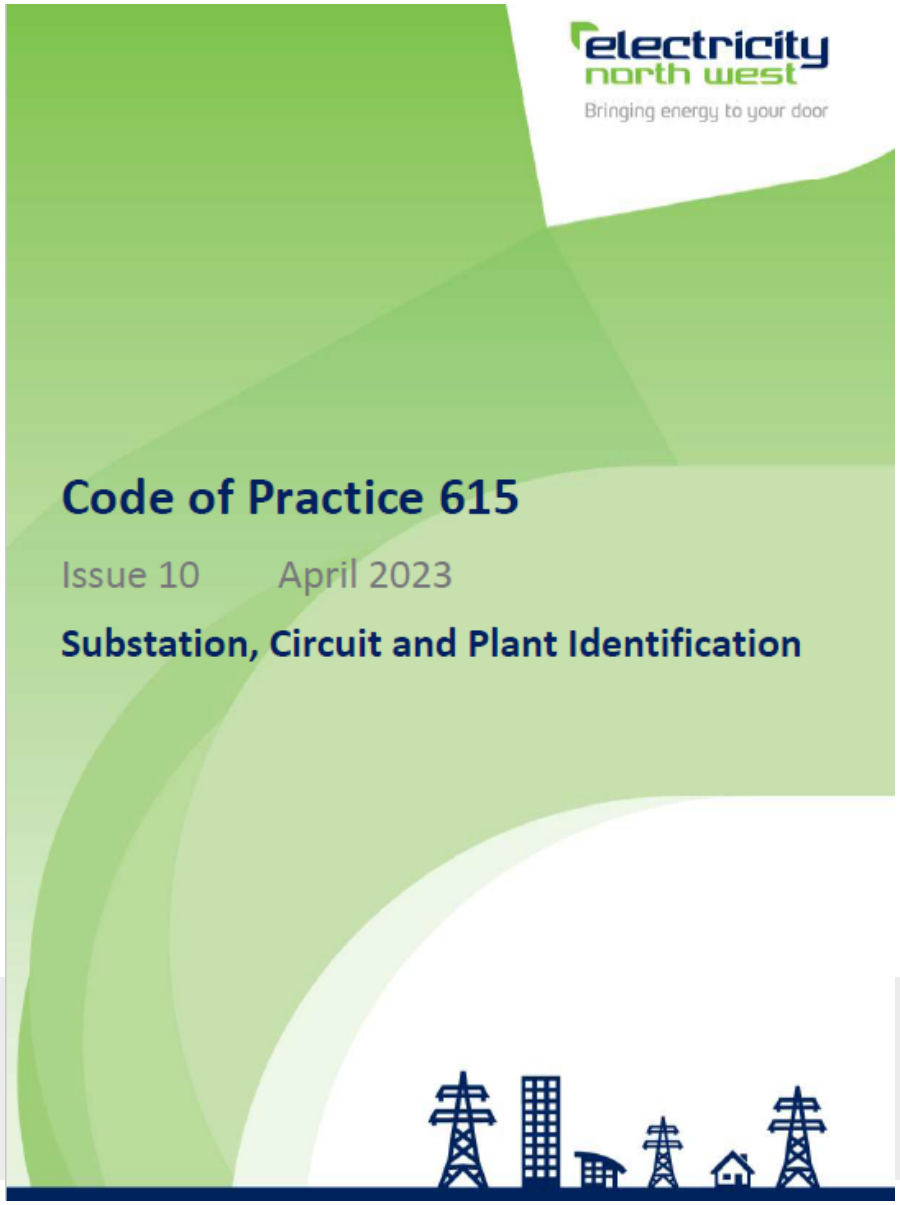
CP615 – Substation, Circuit and Plant Identification

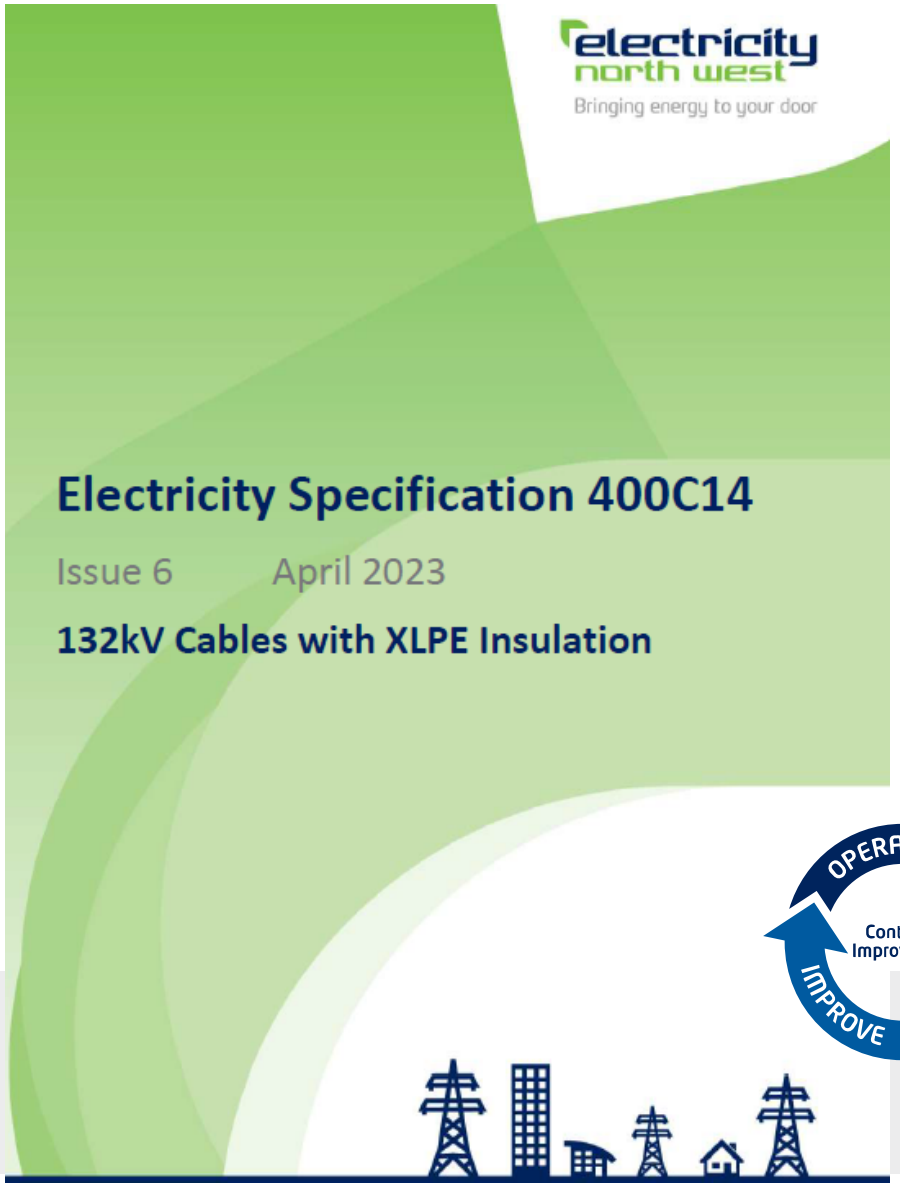


Updates to the naming and numbering approach for telecontrolled linkboxes installed, as part of Smart St and Distributed Energy Resources introduced as part of Active Network Management.

ES400C14 – Specification for 132kV XPLE Insulated Cables

Revision of construction to bring into line with other UK DNO/TNO designs, and testing regimes updated to latest IEC/BS requirements.

For preparation of ED2 Tender for Supply Framework.



ES400E5 – Installation Commissioning and Repair of Underground Cables Operating at 33kV and 132kV

6.4 Joint Bays

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The photograph shows an example of a well prepared 33kV joint bay.

Joint bays shall be constructed to ensure there is adequate working room to install the joints, including the length required to park tubes or joint bodies along the cable during preparation. A typical joint bay for 33kV cables can be estimated at 4metres x 2metres, but the overall length may have to be extended up to 5metres depending on cable size and the joint(s) to be used.

Where specified, joint bays shall have close board timbered shuttering and suitable hard standing shall be provided by use of concrete flag stones/concrete base or composite grid bases, all laid level and flat with no trip hazards to the entire joint bay area.

Where water persists to enter the working area, a sump hole shall be dug in the lowest corner to enable the water to be bailed or pumped out at intervals.

If a canopy is specified , this shall be constructed to provide adequate protection for operatives working in the joint bay and be capable of withstanding wind loads and other climatic conditions typically expected in the North West of England. The canopy shall have a waterproof sheet securely tied to a suitable tubular frame scaffold fixed rigidly to the joint bay sides.

A suitable means of access and egress shall be provided.

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All 33kV joints laid at a depth of 750mm shall be totally encapsulated by resin. Any 33kV joints laid at a depth of minimum 900mm, or within a secure Electricity North West compound (e.g. substation site) may use a reinforced heat shrink wraparound sleeves for outer protection in place of the standard resin encapsulation.

All cables to be jointed shall be positioned substantially straight and level, and adequately supported from the floor of the joint bay to support the weight of the joint

The following changes have been made:

Addition of Section 6.2 on storage of accessories

Addition of Section 6.4 covering joint bays

Minor policy updates

Minor policy updates

CP420 Pt1 – Policy and Practice for Wood Pole Overhead Lines

- Minor updates for company structural changes, policy and legislation references.

CP421 – Maintenance and Refurbishment of Overhead Lines – HV Mains Supported by Poles

- The PURL tester has been withdrawn from use and support by the manufacturer. PURL has been replaced with the Resistograph Drill for testing wood poles.

CP430 Pt 1 – Linesman's Manual – Dead Wood Pole

- The PURL tester has been withdrawn from use and support by the manufacturer. PURL has been replaced with the Resistograph Drill for testing wood poles in OHLT251.

Minor policy updates

CP606 A11 – Operations Manual

- IAD check list moved from A11 to CP423 OHLT 018.

EPD307 – Equipment Approved for Use on Electricity North West Network

- Appendix A Section A13 updated to remove the Lucy ABSD Actuator from the Approved List of Equipment for use.

Minor policy updates

CP614 – Authorisation

- Code 284 – Site specific code
- Trafford General and Withington Community Hospitals- ENWL control and operated substations, access for visual inspection, fire alarm testing, LV network and heating and lighting, and embedded generation.
- Code 316
- Authorised Person to carry out Low Voltage (LV) Telecontrol switching ONLY to the instructions of an LV Authorised Person
- Code 405
- CNS 66kV Cable Jointing

Minor code amendments:-

- Codes 119/519 – Formal training updated for clarity
- Code 183 – Formal training updated
- Code 189 - Formal training updated and note added for clarity
- Code 256 – On job training updated for clarity