Full LV Jointing Course

Objectives

To be able to complete all LV jointing tasks required of a skilled low voltage jointer. The Course covers theory & practical sessions in various jointing techniques including the new mechanical cable jointing.

Content

Cable identification:
Waveform 3 core solid aluminium conductors with copper combined neutral earth. PILCSTA. Paper insulated, lead covered steel tape armoured. Hybrid. Single core service cable.

L.V. Jointing

- Single phase 100amp cut outs
- Single phase waterproof seal on cut out
- Single phase street lamp cut out
- Three phase cut out 100 amp
- 400 amp Industrial cut out
- 1-phase, Hybrid-to-Hybrid straight joint using mechanical connectors
- 1-phase, Hybrid-to-Hybrid straight joint using mechanical connectors (Heatshrink)
- 1-phase, Hybrid-to-Hybrid branch joint using mechanical connectors
- 1-phase, Hybrid to 2-core PILCSTA straight joint using mechanical connectors
- 2-core PILCSTA with a 1-phase Hybrid branch using mechanical connectors
- 1-phase, Hybrid stop end using heat shrink termination
- 1-phase, Hybrid single phase overhead termination using heat shrink kit
- 2-core PILCSTA stop end using heat shrink termination
- 35mm 3-core waveform to 35mm 3-core waveform Heatshrink straight joint
- 35mm 3-core waveform to 35mm 3-core waveform branch joint
- 35mm Single phase service onto 3 core waveform main using I.P.C. connectors
- 35mm Single-phase service onto 3 core waveform main using 'P' connectors
- 35mm Three phase service onto 3 core waveform main using I.P.C. connectors
- 35mm Three phase service onto 3 core waveform main using 'P' connectors
- 35mm Single-phase service onto 4-core paper lead steal tape armoured (S.T.A.) cables using I.P.C. connectors
- 35mm Three-phase service onto 4-core paper lead S.T.A. cables using I.P.C. connectors
- 3-core Alpex to waveform straight joint using mechanical type connectors
- 3-core waveform breech joint using 'Jaw' type connectors
- 3-core waveform stop end joint (heat shrink)
- 3-core waveform heatshrink termination for connection to PC400's, under-eaves or overhead line termination
- 4-core paper lead S.T.A. stop end joint (heat shrink)
- 4-core paper lead S.T.A to 3-core waveform transitional straight joint using mechanical connectors
- 4-core paper lead S.T.A. with a waveform breech using mechanical connectors
- 3-core waveform with a 4-core paper lead S.T.A. breech using mechanical connectors
- 3-core waveform straight/breech joint using mechanical connectors
- 4-core paper lead S.T.A./waveform straight/breech joint using mechanical connectors
- 2-way link box using 3-core waveform cable
- 4-way link box using 3-core waveform cable
- Termination into an L.V. cabinet/pillar using 3-core waveform cable
- 600mm2 single core Solidal connections armoured/non-armoured for connection between transformers & pillars
- An appreciation of 'old style' jointing, plumbing, sweating/soldering weak-back ferrules
- Insulation & continuity testing of cables prior to connection
- 'Is it really an LV cable' flow-chart, how to follow it to correctly identify an LV cable from an HV cable
- Loop impedance and polarity training (if required)

Use of instruments

1. Polarity checks
2. Loop impedance, use and values
3. Phase rotation
4. Meggars, resistance, use and Values
5. Phasing out

Audience

Delegates wishing to carry out LV cable joints.

Maximum numbers

8 delegates.

Duration

20 days.

Venue

Empower Training Services Ltd, Nottingham.