

## Overhead Line Appreciation



### Objectives

Delegates attending this course will be given a thorough overview and understanding of overhead line and associated equipment and overhead line techniques.

### Content

- Working at height – use of harness and lanyards
- Pole testing
- Conductor repairs – tension jointing (LV & HV)
- HV insulator repairs – tension & non tension
- Binder/Tie replacement
- Transformer installation & associated apparatus
- Jumper and connector replacement – LV & HV
- LV insulator repairs
- LV Jumpers and connectors
- Erection of cable terminations – LV & HV
- Mural Wiring and cut out replacement
- LV Live working – connections and disconnections
- Pole top rescue

### Audience

Experienced craftsmen/project managers that are looking to have a better understanding of overhead lines and associated equipment and techniques.

### Maximum numbers

8 delegates.

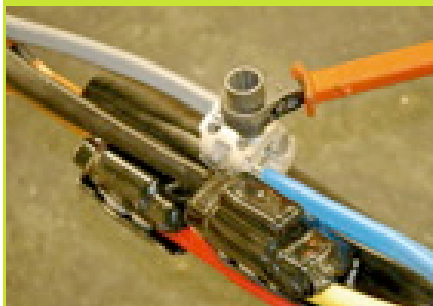
### Duration

15 days.

### Venue

Empower Training Services Ltd, Nottingham.

## Full 11KV (LV – HV) Cable Jointing Course



### Objectives

**On completion of this course delegates will be able to:**

- Complete any 11KV-jointing task with any combination of cable using heatshrink materials and mechanical connectors
- Identify materials and the additional tools and uses
- Work to a high standard using Heatshrink Jointing techniques
- Comply with Codes of Practice
- Adhere to the Distribution Safety Rules

### Content

- Cable Identification, PICAS Paper Insulated Corrugated Aluminium sheath PILCSWA paper insulated lead covered steel wire armoured XLPE (cross linked polyethylene) Polymeric/Triplic
- PICAS to PICAS breach joint using mechanical connectors & heatshrink tubing
- PICAS to PILCSWA transitional straight joint using mechanical connectors & heatshrink tubing
- PICAS/PILCSWA stop end joint
- PICAS pole mounted termination
- PICAS dividing box on switchgear using mechanical connectors + heatshrink tubing
- Application of mechanical earth termination on PILCSWA cable
- PICAS to three single cores XLPE straight/transitional joint using mechanical connectors & heatshrink tubing
- 3 single core XLPE cables breached into a PICAS cable using mechanical connectors & heatshrink tubing
- XLPE single core straight joint, Mechanical connectors + heatshrink tubing
- XLPE single core branch joint using mechanical connectors + heatshrink tubing

- XLPE end joint using heatshrink tubing
- Termination of XLPE into switchgear using mechanical connectors + heatshrink tubing
- Termination of XLPE outdoor using mechanical connectors + heatshrink tubing
- How to use a spiking gun and correct cartridge selection
- Safe systems of Work i.e., Safety rules, Permits to work, Pressure Test

### Audience

This is a conversion course, designed to give delegates already experienced in Low Voltage Cable Jointing the skills required of a 11kV Cable Joiner.

### Maximum numbers

8 delegates.

### Duration

10 days.

### Venue

Empower Training Services Ltd, Nottingham.

