

Level 3

# **Terminate and Connect Conductors**

Unit Code:	ETKP3-0	5		
12 GLH				
Learner Na	ıme: _		 	



# **Unit Overview**

### **Unit Aim**

This unit is designed to enable the learner to develop the skills required, and apply the associated knowledge, in order that they are able to demonstrate the competence required to terminate and connect conductors and cables in electrical systems in accordance with approved industry practices, statutory and non-statutory regulations:

- The Electricity at Work Regulations (1989)
- BS 7671
- · Health and Safety at Work Act (1974)
- Building Regulations (2000).

In delivery of this unit an emphasis shall be made to the learner on the necessity to keep up to date with the latest standards, technologies and practices which relate to and affect the topics covered in this unit. This is in then in keeping with good engineering practice.

## **Summary of Learning Outcomes**

The learner will:

- 1. Prepare to terminate and connect cables and conductors.
- 2. Terminate and connect conductors and cables.

### Assessment

Auditable evidence sourced from a real working environment must be provided to illustrate that, the learner has demonstrated on **two separate occasions** they can terminate and connect conductors in accordance with the assessment criteria for each of the learning outcomes.

### **Guidance:**

Note that additional reference boxes may be given against assessment criteria to provide enough opportunity to record evidence. **If completing this document electronically remember to save your work.** 

# Evidence to be Referenced

# Learning Outcome 1: Prepare to terminate and connect cables and conductors

# The learner must be able to:

1.1	Evalua include	te and apply appropriate procedures to e:
	а	selecting appropriate tools/equipment to enable termination and connection
	b	adopting appropriate PPE
	С	following a safe system of work (e.g. risk assessment, method statement, permit to work procedure)
1.2		s and confirm it is safe to complete termination and ction in terms of:
	а	checking for presence of supply/carrying out safe isolation
	b	mechanical soundness of the electrical equipment to be connected to
	С	checking for unsafe situations

# Learning Outcome 2: Terminate and connect conductors and cables

# The learner must be able to:

2.1	ance w	nate and connect cables and conductors in accord- vith manufacturers instructions, BS 7671, and any nt drawing or specification: <b>Cover Four:</b>	
	а	single core cable (singles)	
	b	multicore insulated cable	
	С	PVC / PVC flat profile cable (twin and earth)	
	d	MICC cable	
	е	fire performance (such as FP 200 etc.)	
	f	SWA cable	
	g	GSWB galvanised steel wire braid	
	h	data cable	

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# Evidence to be Reference

# Learning Outcome 2: Terminate and connect conductors and cables (continued)

# The learner must be able to:

2.2	manuf	ct to electrical equipment in accordance with acturers instructions, BS 7671, and any relevant or specification: <b>Cover Five:</b>	
	а	isolators /switches	
	b	socket outlets	
	С	distribution-boards / consumer control units	
	d	luminaires	
	е	electric motors / motor control equipment	
	f	overcurrent protective devices	
	g	earthing terminals	
	h	control panels	
	i	data socket outlets or data connections	
	j	fire detection/alarm components .	
	k	other appropriate equipment (such as: heating system components etc.)	
2.3		nate and connect conductors, using appropriate ds: <i>Cover Two:</i>	
	а	screwing	
	b	crimping	
	С	soldering	
	d	non-screw compression	
	е	insulation displacement	
2.4	and me	that terminations and connections are electrically echanically sound (e.g. by simple inspecting and terminations)	
2.5		cables have appropriate identification in lance with BS 7671	

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