

THE DOMESTIC INSTALLER

by Paul Cook

THE LEVEL 2 Certificate for Domestic Electrical Installers Qualification (Vocationally related qualification) has been developed by EMTA Awards Ltd together with the Electrical Contractors Association, the National Inspection Council for Electrical Installation Contracting and CORGI. The qualification was developed with the Part P requirements of Part P of the Building Regulations particularly in mind.

The aim of the qualification is to give successful persons the minimum knowledge and understanding of the skills and competences necessary to carry out electrical work in dwellings in accordance with the Building Regulations and BS 7671. It will also provide a route to training and employment as an electrician. It is important to note that a domestic installer is not an electrician. It is a Level 2 qualification and not the Level 3 qualification of an electrician.

COMPLIANCE WITH THE BUILDING REGULATIONS

The Building Regulations require a domestic installer not only to have a knowledge of electrical work but also knowledge of related Building Regulations including Parts A, B, C, E, F, L, and M.

It is necessary for the firms working to the Building Regulations to have a good background understanding of basic employment safety legislation as well as knowledge of the constructional requirements of the Building Regulations themselves.

THE ELECTRICIAN'S GUIDE TO THE BUILDING REGULATIONS

The IEE has published a new book, 'The Electrician's Guide to the Building Regulations'. As well as providing information that electricians need to know about the Building Regulations (not only the electrical requirements in Part P) it has also been written for persons training to become Domestic Installers.

Type of final circuit	Cable size pvc/pvc	Circuit-breaker rating	Max. floor area	Maximum cable length		Maximum test loop impedance [†]	
				TN-C-S PME earth Ze up to 0.35 Ω	TN-S sheath earth Ze up to 0.8 Ω	Type B BS EN 60898/BS EN 61009	Type 1 BS 3871
	mm ²	A	m ²	m	m	Ω	Ω
Ring, supplying 13 A socket-outlets	2.5/1.5	32	100	90	90	1.2	1.5
Radial, supplying 13 A socket-outlets	2.5/1.5	20	50	30	30	1.92	2.4
Cooker (oven+hob) control unit with socket-outlet	6/2.5	32	-	40	40	1.2	1.5
Cooker (oven+hob) control unit with no socket-outlet	6/2.5	32	-	40	40	1.2	1.5
Oven (no hob)	2.5/1.5	16	-	30	30	2.4	3.0
Immersion heater	2.5/1.5	16	-	30	30	2.4	3.0
Shower to 30 A (7.2 kW)	6/2.5	32	-	40	40	1.2	1.5
Shower to 40 A (9.6 kW)	10/4	40	-	40	40	0.96	1.20
Storage radiator	2.5/1.5	16	-	30	30	2.4	3.0
Fixed lighting	1.5/1.0	10	-	100*	100*	3.84	4.8

*100 m cable including switch drops, 35 m loop on length

[†] Measured values at an ambient temperature of 10° C to 20° C

Above: Simple circuit schedule from 'The Electrician's Guide to the Building Regulations' Table 4.1.1

The IEE has been aware, from market research, that college lecturers are reporting trainees getting into a little trouble with the Onsite Guide and have had in mind preparing a more easy to use guide. 'The Electrician's Guide to the Building Regulations' provides detailed drawings of typical circuit arrangements and provides standard circuit arrangements that require no calculations. Copied above and on the following page are examples of the

approach taken. The table shows the standard circuit requirements for type B circuit breakers. The figures on the right show the typical detail.

'The *Electrician's Guide to the Building Regulations*' is the most user-friendly publication that the IEE has produced to date on electrical installations in dwellings. As well as being written as a course book for the domestic installer, it provides very useful references for all persons involved in Building Regulations work, including plumbing and other trades. Companies that carry out electrical work as an ancillary part of their main work, such as plumbing or gas installation, must be registered to avoid the need to notify Building Control in advance of the work, thereby accruing a fee. These firms will be registering as level B or C Enterprises and will need to employ supervisors or responsible persons. The *Electrician's Guide* has also been written for these supervisors and provides clear guidance.

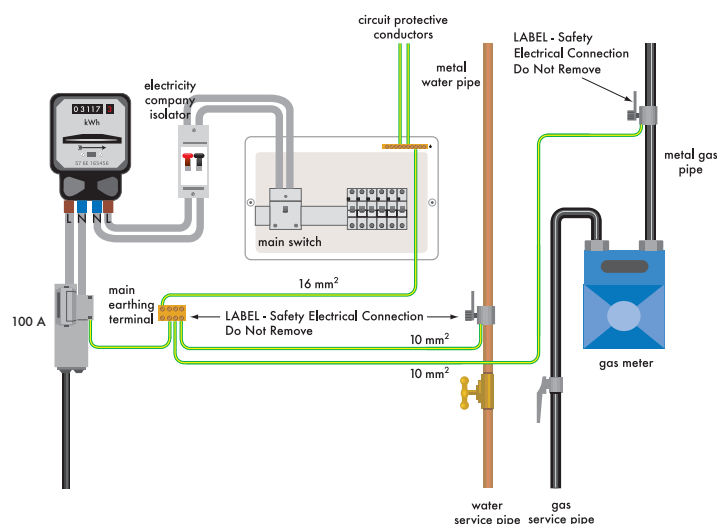
DEMAND FOR SKILLED PERSONS

Part P of the Building Regulations is extremely comprehensive, requiring all bar minor works outside kitchens and bathrooms to be notified to Building Control or carried out by registered Competent Persons. There is a need for an increase in the training base for the building trade and the IEE is playing its part in this by preparing publications and running training courses. ■

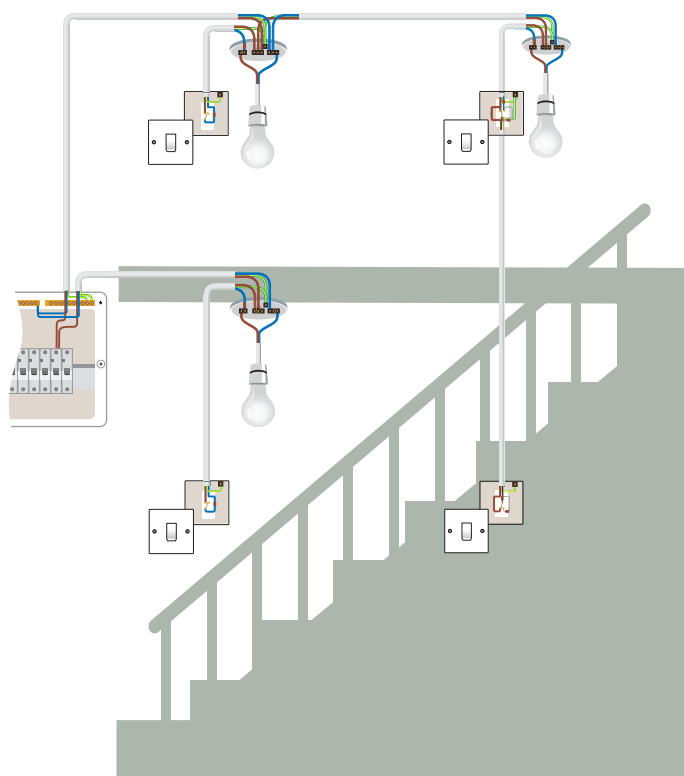
The Electrician's Guide to the Building Regulations

Price £17 A5 spiral bound
ISBN 0-86341-463-X

To order contact IEE Sales:
Tel 01438 767328 sales@iee.org



Above: The origin of an installation forming part of a PME system from 'The Electrician's Guide to the Building Regulations'



Above: Two way lighting drawing from 'The Electrician's Guide to the Building Regulations'