

# Electrotechnical Guide to Assessments and Permitted Materials

January 2019 v1.3

This guide sets out all Electrotechnical assessments indicating component numbers, assessment times and permitted materials.

Non-programmable scientific calculators are permitted for all assessments but may not be necessary in some of the assessments.

Where permitted materials state 'any suitable resource material', permitted material are at the discretion of the assessor.

## Calculators

Non-programmable scientific calculators are permitted for **all** assessments but may not be necessary in some of the assessments.

## 'Any Suitable Resource Materials'

Where permitted materials state 'any suitable resource material', permitted material are at the discretion of the assessor. Resources could include reference books, manufacturer's information or information from the internet.

## Electronic copies

City & Guilds will permit candidates to use electronic copies of the materials within practical assessments. However, electronic copies of materials **cannot** be used in externally marked assessments (evolve tests/written exams). If a candidate only has an electronic copy of the materials, centres must provide the candidate with a paper-based copy which meets the below criteria.

## Examinations allowing publications

Where BS 7671, IET On-site Guide and other IET Guidance Notes are permitted, books **must not** contain additional notes or pages within the publications, further clarification of this guidance is given in the lists below. The lists below details was is and isn't deemed to be acceptable.

What is permitted in these publications;

- corrigenda published by IET or BSI
- amendments which have been published by IET or BSI as additional pages instead of a publication re-print
- stick-on paper used as page referencing
- highlighting text within the publication
- very short hand-written descriptors of BS or regulation numbers which cross-reference a feature elsewhere in the publication (see example 1 below).

Example 1 – What is acceptable

'...shall be provided with additional protection by means of an RCD having the characteristics specified in Regulation 415. 1.'

30mA max

What is not permitted in these publications;

- additional personal note pages
- additional formula (printed or handwritten)
- additional printed pages (with exception of those listed above)
- handwritten procedures
- handwritten descriptors of regulations/text which do not feature elsewhere in the publication.

### **Publications with published errors**

#### **July 2018: Requirements for Electrical Installations BS 7671:2018 (IET Wiring Regulations 18th Edition) (ISBN: 978-1-78561-170-4)**

It has been noted that due to a print error in BS 7671, there are missing sections from the contents pages. Any centre who have any queries relating to the detail of the missing content should contact IET directly.

In the interim, City & Guilds advise that centres insert printed sheets detailing the corrections into the BS7671 until the IET produce a corrigendum reflecting these obvious errors. This will allow invigilators to become familiar with the printed sheet and recognise it as a permitted addition to the publication.

## Apprenticeship / Full time Qualifications

**Table 1A: 5357 Electrotech apprenticeship qualification**

Subject	Assessment number	Assessment type	Assessment time	Permitted materials
Health & Safety	101	Practical	7 hours	Closed book
	001	E-volve on-line MC test	40 minutes	Closed book
Scientific Principles	103	Short answer, written question paper	120 minutes	Closed book
		Practical	45 minutes	
	003	E-volve on-line MC test	90 minutes	Closed book
Design	104	Project	20 hours guided	Any relevant resource
	004	E-volve on-line MC test	70 minutes	IET On-site Guide; BS 7671
Plan and Oversee	105	Project	No time constraint	Any relevant resource
	005	E-volve on-line MC test	40 minutes	Closed book
Terminations and connections	107	Practical	10 hours	Any relevant resource
Inspection & Testing	112	Practical	3 hours	Any relevant resource
		Short answer, written question paper	2 hours	Closed book
	012	E-volve on-line MC test	80 minutes	Closed book
Fault diagnosis	114	Practical	3 hours	Any relevant resource
	014	E-volve on-line MC test	60 minutes	Closed book
Requirements of BS 7671	016	E-volve on-line MC test	120 minutes	BS 7671
	018	E-volve on-line MC test	120 minutes	BS 7671

**Table 1B: 2357 Electro Technical Technology**

Subject	Assessment number	Assessment type	Assessment time	Permitted materials
Health & Safety	601	Assignment	No time constraint	Any relevant resource
	301	E-volve on-line MC test	40 minutes	Closed book
Environmental technologies	602	Assignment	No time constraint	
	102	E-volve on-line MC test	70 minutes	Closed book
Organise & Oversee	603	Project	No time constraint	Any relevant resource
		Short answer, written question paper	60 minutes	Closed book
Electrical Design	604	Project	No time constraint	Any relevant resource
		Short answer, written question paper	150 minutes (2.5 hours)	BS 7671; IET On-site Guide
Electrical Installations to BS 7671	705/725	Assignment	No time constraints	Any relevant resource
		Short answer, written question paper (705 only)	60 minutes	Closed book
	305	E-volve on-line MC test	45 minutes	BS 7671
	006 (17 <sup>th</sup> Edition Test)	E-volve on-line MC test	120 minutes	BS 7671
	008 (18 <sup>th</sup> Edition Test)	E-volve on-line MC test	120 minutes	BS 7671
Terminations	606	Practical	5 hours	Any relevant resource
Inspection & Testing	107	E-volve on-line MC test	80 minutes	Closed book
	607	Short answer, written question paper	2 hours	Closed book
		Practical	5 hours	Any relevant resource
Fault diagnosis	608	Short answer, written question paper	no time constraint	Any relevant resource
		Practical	3 hours	Any relevant resources
Scientific Principles	309	E-volve on-line MC test	60 minutes	Closed book
	609	2 Short answer, written question papers	60 minutes per paper	Closed book

**Table 1C: Level 2 2365 Electrotechnical Craft**

Subject	Assessment number	Assessment type	Assessment time	Permitted materials
Health & Safety	211	Practical	7 hours total	Closed book
	601	E-volve on-line MC test	40 minutes	Closed book
Fundamental Science	602	E-volve on-line MC test	90 minutes	Closed book
Electrical Technology	203	E-volve on-line MC test	75 minutes	IET On-site Guide
Installation	204	Practical assignment	8 hours	Any relevant resource
Communications	210	E-volve on-line MC test	40 minutes	Closed book

**Table 1D: Level 3 2365 Electrotechnical Craft**

Subject	Assessment number	Assessment type	Assessment time	Permitted materials
Environmental Technology	301	E-volve on-line MC test	75 minutes	Closed book
Advanced science	612	Short answer, written question paper	120 minutes	Closed book
		Practical	45 minutes	
Fault diagnosis	623	E-volve on-line MC test	60 minutes	Closed book
	613	Practical	3 hours	Any relevant resource
Inspection & Testing	614	Practical	3 hours	Any relevant resource
		Short answer, written question paper	2 hours	Closed book
	624	40 item e-volve on-line MC test	80 minutes	Closed book
Electrical Design	625	30 item e-volve on-line MC test	60 minutes	IET on-site guide
	615	Project	No time constraint	Any relevant resource
Career awareness	308	Short answer, written question paper	No time constraint	Closed book
		Project	No time constraint	Any relevant resource

**Table 1D: 8202 Technicals in Building Services Engineering**

Subject	Assessment number	Assessment type	Assessment time	Permitted materials
Level 2 Theory Test	020/520	MC test either on E-volve (on-line) or paper	120 minutes	IET on-site guide; BS 7671
Level 2 Synoptic Assignment	021	Synoptic assignment	Subject to assignment version	Any relevant resource
Level 3 Theory Test	531	Externally marked, written paper	150 minutes (2.5 hours)	BS 7671; IET On-site Guide; IET guide to the building regulations
Level 3 Synoptic Assignment	032	Synoptic assignment	Subject to assignment version	Any relevant resource



**Table 1E: 2397 Installing, Testing and Ensuring Compliance of Electrical Installation Work in Dwellings**

Subject	Assessment number	Assessment type	Assessment time	Permitted materials
Health & Safety	502	E-volve on-line MC test	60 minutes	Closed book
Environmental technologies	502	E-volve on-line MC test	60 minutes	Closed book
Organise & Oversee	503	E-volve on-line MC test	75 minutes	Closed book
Selecting wiring systems	505	Short answer written paper	2 hours	BS 7671; IET On-site Guide
Fault diagnosis	506	E-volve on-line MC test	90 minutes	Closed book
Connecting wiring systems	507	E-volve on-line MC test	90 minutes	BS 7671; IET on-site guide; IET guide to the building regulations
Inspection & Testing	508	E-volve on-line MC test	75 minutes	Closed book

## CPD qualifications

**Table 2A: 2391 Electrical Inspection and Testing**

Subject	Assessment number	Assessment type	Assessment time	Permitted materials
Initial Verification	050	E-volve on-line MC test	90 minutes	BS 7671, IET On-site Guide; IET GN3
	500	Practical	150 minutes (2.5 hours)	
		Short answer written paper	60 minutes	
Periodic Inspection & Test	051	E-volve on-line MC test	90 minutes	BS 7671, IET On-site Guide; IET GN3
	501	Practical	150 minutes (2.5 hours)	BS 7671, IET On-site Guide; IET GN3 (except Task A)
		Short answer written paper	60 minutes	
Combined Inspection & Test	052	E-volve on-line MC test	120 minutes	BS 7671, IET On-site Guide; IET GN3
	502	Practical	150 minutes (2.5 hours)	BS 7671, IET On-site Guide; IET GN3 (except Task A)
		Short answer written paper	60 minutes	

**Table 2B: 2382 Requirements for Electrical Installations**

Subject	Assessment number	Assessment type	Assessment time	Permitted materials
Requirements of BS 7671 (18 <sup>th</sup> Edition)	602	E-volve on-line MC test	120 minutes	BS 7671

**Table 2B: 2396 Design, Erection and Verification**

Subject	Assessment number	Assessment type	Assessment time	Permitted materials
Design & Management of Electrical Installations	401	Project	40 hours	Any relevant resources
	402	10 item written paper	3 hours	BS 7671, IET On-site Guide; IET GN3

**Table 2C: Other CPD Qualifications**

Qualification	Subject	Assessment number	Assessment type	Assessment time	Permitted materials
2392	Fundamental Inspection & Testing	101	50 item Evolve on-line MC test	100 minutes	Closed book
		102	Practical assessment	2 hours	BS 7671; IET On-site Guide; IET GN3
2393	Building Regulations	101	20 item Evolve on-line MC test	40 minutes	IET Guide to the building Regulations
2377	Portable Appliance Testing	601 (testing)	50 item Evolve on-line MC test	1 hour 45 mins	IET code of practice (PAT)
		201 (Management)	Evolve on-line MC test	80 minutes	IET code of practice (PAT)
2919	Electric vehicle charging installations (full scope)	601	40 item Evolve on-line MC test	60 minutes	IET CoP Electric Vehicle Charging Installations
		301	Practical	3 hours	IET CoP Electric Vehicle Charging Installations
	Electric vehicle charging installations (domestic)	602	40 item Evolve on-line MC test	60 minutes	IET CoP Electric Vehicle Charging Installations
		302	Practical	2.5 hours	IET CoP Electric Vehicle Charging Installations