

Electrical Courses for Refrigeration Engineers

We provide three electrical courses to meet the different needs of maintenance and service engineers:

	Suitable for ...	Length	Cost	Code
Basic Electrical Safety and Safe Isolation	Maintenance engineers, e.g. case cleaners	1 day	£295	C9
Refrigeration Electrics	Experienced service engineers	1 day	£295	C12
Basic Refrigeration Electrics	Rookie service engineers	2 days	£495	C13

The cost is per person and includes lunch and course notes (excluding VAT).

The table below shows the topics included in each course.

Topic	Course		
	C9	C12	C13
RoSPA e-learning and assessment	✓	Self study prior to attendance	✓
Basic electrical science	✗	✗	✓
Electrical safety - facts and measures	✓	✓	✓
Using electrical test meters – what they tell you and what to expect	Voltage tester	Voltage tester Amp probe Multi meter Capacitor tester Megger	Voltage tester Amp probe Multi meter Capacitor tester Megger
Single and three phase supplies	✓	✓	✓
Safe isolation, lock off (working dead) and reinstatement	✓	✓	✓
Electrical component replacement	✓	✓	✓
How to read a ladder wiring diagram	✗	✓	✓
Single phase compressor electrics, including PTC, current and potential relays	✗	✓	✓
Three phase compressor electrics, including DOL, PWS and SD starting	✗	✓	✓
Measuring voltage	✓	✓	✓
Measuring resistance, current and capacitance	✗	✓	✓
Electrical fault finding	✗	✓	✓

The e-learning comprises two RoSPA (Royal Society for the Prevention of Accidents) accredited electrical safety modules:

- What everyone needs to know;
- Principles for maintenance work.

The courses are a mix of theory, discussion and hands on practical sessions. As well as the e-learning exams, practical assessments are carried out during the session:

Assessment	C9	C12	C13
Isolation and reinstatement	✓	✓	✓
Measuring voltage	✓	✓	✓
Measuring resistance, current and capacitance	✗	✓	✓
Metering relays	✗	✓	✓
Metering compressors	✗	✓	✓
Reading wiring diagrams	✗	✓	✓
Jointing cables	✓	✓	✓

The courses are held at our well equipped training centre in Gloucestershire and can be run in house.

About Cool Concerns' Training – for engineers by engineers

Training and assessments are carried out by the working directors – Jane Gartshore and Stephen Benton – and by the training centre manager Alan Snelling. We are refrigeration engineers with a wide and varied range of practical experience within the refrigeration and air conditioning industry.

We provide training that “hits the spot” – it is relevant, informative and fun with the emphasis on hands on practice mixed with high quality theory presentations. All our training is designed to use trainees' time as efficiently as possible, thus minimising expensive down time. We draw on the wide range of experience of the trainers to prepare high quality training sessions.

