

# MPBA Electrical Courses Overview

## Electrical Safety Unit

Level One: Pre-delivery Electrical Condition Inspection, Testing and Reporting

Level Two: In Service Electrical Repair, Modification and Maintenance

Level One and Level Two: Renewal Courses



V1.5 January 2022

The MPBA Learning Hub, with input from members and the ECA, have redeveloped the electrical qualifications to offer a more flexible solution for member companies.

The qualifications are primarily aimed at those individuals requiring registration under the MPBA Electrical Card scheme only. Basic Health & Safety training is required for the qualifications along with an understanding of basic hand tools and access equipment.

Anyone without existing knowledge, as detailed above, must undertake the training addressing these requirements before attempting this qualification.

### **The aims of the qualifications are to:**

- Meet the needs of MPBA registration and those individuals who work for MPBA member companies.
- Provide the base electrical safety knowledge for all individuals working near electricity that has the ability to be energised.
- Ensure the individual has sufficient knowledge to complete the safe inspection and maintenance of electrical installations in modular and portable buildings.
- Ensure the individual has sufficient knowledge to undertake in service electrical repairs, modification and maintenance.
- Provide CSCS recognition for individuals working on sites to carry out Electrical Works.

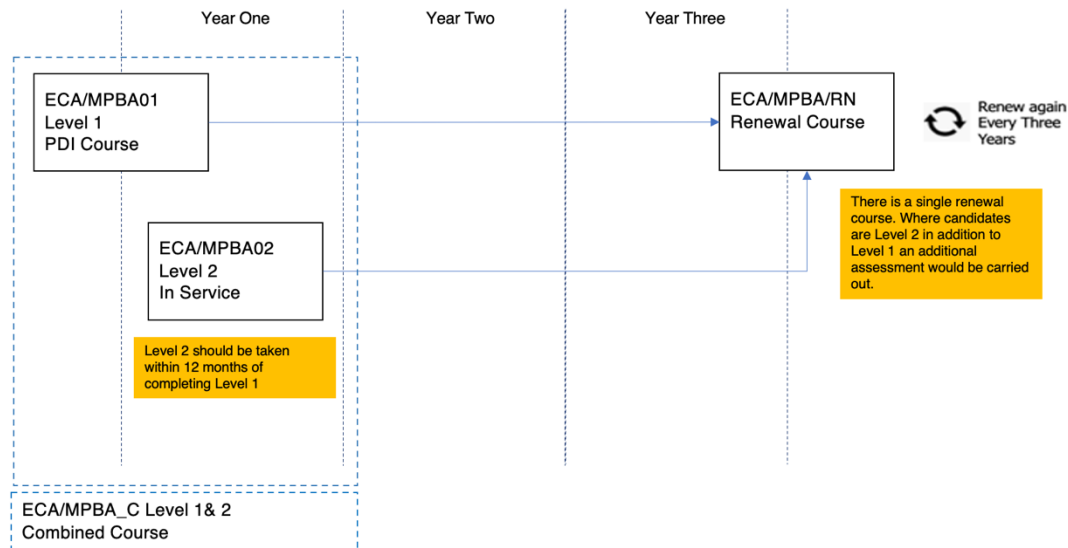
Each course covers different aspects of working on electrical systems in relation to modular and portable buildings. Qualified learners are deemed as having sufficient skills and knowledge to undertake different aspects of work depending on the course and assessment undertaken.

The availability of courses and use of the agreed working approach with the Electrical Card Scheme is only available for employees of MPBA member companies.

Courses are available to book at the dedicated MPBA training centre located in Coventry, dates can be found online <https://mpba.biz/key-dates> or at your own depot/yard for a dedicated course.

## Course Route Map

The following diagram shows the route for the candidates who wish to undertake testing only (Level one) or wish to progress to carry out in service modifications, repairs and circuit additions (Level two).



For both Level one and Level Two qualified individual's renewals must take place within three years of completing the Level One Health and Safety (H&S) assessment, the Level two course does not repeat the H&S assessment, there is a single renewal course.

### New of 2022 – Electrical Safety Unit Card

For individuals working alongside those that are carrying out electrical works or inspection and testing the Electrical Safety Unit card and assessment has been developed to provide a basic electrical industry safety qualification.

The assessment covers the essential safety aspects of carrying out electrotechnical work in a specialised occupation allied to an electrical installation that has already been installed by a qualified person.

To apply for an Electrical Safety Unit card the applicant must sit the Health, Safety and Environmental (HS&E) assessment plus the Electrical Safety Unit assessment.

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### Course Details

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#### ECA/MPBA/ESU Modular & Portable Building Electrical Safety Unit Assessment and Card

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The aim of this one day course is to provide a consistent level of electrical safety training to all that are working in depot or on sites around electrical works. This should include any staff that make cabin connections to power up either from mains supply and/or generator, and those that supervise electrical works/inspection and testing.

### Objectives

On completion of the course and assessment individuals will be:

- Aware of the dangers of electricity and the safe working practices for electrical connection.
- Carry out safe isolation of a cabin.
- Understand the purpose and process of Electrical inspection and testing.

### Course Content

There are nine modules of learning covered on the course.

1. The dangers of electricity.
2. Electrical regulations and legislation.
3. Safe working practices on electrical installations.
4. Cabling and earthing systems.
5. Limits and boundaries when working on electrical installations.
6. Basic electrical equipment types.
7. Risk assessments, method statements, safe systems of work and permits to work.
8. Basic requirements of testing electrical installations.
9. General Health and Safety.

### Course Assessment

Each candidate will be required to pass a multichoice Health And Safety test taken in an online environment under strict invigilation and also a multichoice Electrical Safety Assessment in a similar online environment under strict invigilation.

### Outcome and Renewal

Candidates who successfully pass this course are deemed capable of working safely around electrical works and make a safe connection to a fully tested modular or portable building.

The qualification is accredited with the ECA- MPBA Electrical Safety card and certificate, valid for 3 years from the date of card issue. On the three year anniversary the holder must repeat the Health and Safety Assessment to renew the card.

### Required Resources and Equipment

To undertake the course the candidates must have access to:

A training/meeting room with available projection screen and WiFi Access

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### Course Details

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ECA/MPBA01	Modular & Portable Building Pre-delivery Electrical Condition Inspection, Testing and Reporting
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The aim of this three-day course is to provide the underpinning knowledge and practical skills to enable MPBA member company employees to undertake the pre-delivery inspection, testing and reporting of a portable building single module electrical installation prior to delivery to a site.

### Objectives

Given the underpinning knowledge, practical competencies, tools, test equipment and documentation at the end of the course candidates will be able to:

- Visually inspect a range of cabin electrical installations for common visual defects and carry out minor repair and replacement of electrical installation components.
- Carry out safe isolation of a cabin.
- Carry out the appropriate electrical tests, complete and sign off the electrical pre-delivery inspection report form.

### Course Content

1. ECS required Health and Safety.
2. Basic Electrical Theory.
3. Understanding Electrical Components.
4. Understanding Installation Methods.
5. Electrical Testing Approach.
6. Practical Testing Demonstration.

### Course Assessment

Each candidate will be required to pass a multichoice Health and Safety test taken in an online environment under strict invigilation and also undertake a practical assessment completing the inspection and test of a cabin electrical installation.

### Outcome and Renewal

Candidates who successfully pass this course are deemed capable of the testing of wiring systems to a pre-determined design and completion of the appropriate document (Pre-Delivery Inspection and Test Report).

The qualification is accredited with the ECA- MPBA CSCS card and certificate, valid for 3 years from the date of card issue.

### Required Resources and Equipment

To undertake the course the candidates must have available:

- Access to a conference/meeting room with presentation facilities and adequate space for delegates and trainer. Training room to be occupied by a maximum of 7 (6 delegates + Trainer) all maintaining 1m+ distance at all times.
- Fully fitted module/container ready for PDI with connection to supply without RCD protection for practical test use.
- Electrical lock off kit to contain suitable equipment to make safe a module/container for test (i.e. Padlock, Labelling, Hasp, Socket Blank, etc).
- Suitable electrically insulated tools for tests and basic modifications.
- Test equipment for employee use to include:
  1. Voltage/Continuity tester (Fluke T90 or equivalent).
  2. Proving Unit (Fluke PRV240 or equivalent).
  3. Multifunction Electrical Tester (Megger MFT1711 or equivalent).
  4. Test probes (including wandering lead).
  5. Socket Tester (Martindale CP501 or Equivalent).

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ECA/MPBA02	Modular & Portable Building in Service Electrical Repair, Modification and Maintenance
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All candidates must have successfully completed course ECA/MPBA01 before undertaking the Level Two course. It is recommended that the course is taken within 12 months of completing Level One or the Level One renewal.

### Objectives

The aim of this three-day course is to provide the underpinning knowledge and practical skills to enable MPBA member company employees to undertake replacement, additions and upgrades of electrical systems associated with modular and portable buildings when on site or awaiting dispatch from the depot.

### Course Content

1. Electrical Legislation and Regulations.
2. Practical Electrical Theory.
3. Circuit Design.
4. Allowable Installations (Power).
5. Allowable Installations (Lighting).
6. Practical Assessments.

### Course Assessment

During the course each candidate will be assessed by the trainer in aspects of electrical installation on both a static training rig and on a modular building.

### Outcome and Renewal

Candidates who successfully pass this course are deemed capable of adding new circuits and / or additional fittings to an existing system or can work on a system which is on site and connected to an electrical supply and completion of the appropriate documentation.

Note, the Level Two course **does not** repeat the Health and Safety Test for card application, the date of expiry of the ECS card will not change and will be as per the issue from Level One.

### Required Resources and Equipment

To undertake the course the candidates must have available:

- Access to a conference/meeting room with presentation facilities and adequate space for delegates and trainer. Training room to be occupied by a maximum of 7 (6 delegates + Trainer) all maintaining 1m+ distance at all times.
- Fully fitted module/container ready for PDI with connection to supply without RCD protection for practical test use.
- Electrical lock off kit to contain suitable equipment to make safe a module/container for test (i.e. Padlock, Labelling, Hasp, Socket Blank, etc).
- Suitable electrically insulated tools for tests and basic modifications.
- Test equipment for employee use to include:
  6. Voltage/Continuity tester (Fluke T90 or equivalent).
  7. Proving Unit (Fluke PRV240 or equivalent).
  8. Multifunction Electrical Tester (Megger MFT1711 or equivalent).
  9. Test probes (including wandering lead).
  10. Socket Tester (Martindale CP501 or Equivalent).

In addition, it is the responsibility of the customer to provide the following **components and parts** for use during the practical training and assessment:

- Suitable 2.5mm and 1.5mm cable of the type used normally (i.e. Twin and Earth or Flex).
- Earth and Brown Sleeving.
- Single Gang Pattress (Minimum of 4).
- Double Gang Pattress (Minimum of 4).
- Single Gang Switch Fused Spurs (Minimum of 3).
- Double Gang Twin Sockets (Minimum of 4).
- Single Gang Single Way Light Switch.
- Surface Mount PIR.
- Surface Mount Trunking (Various sizes as required).
- Suitable Light fittings for standard buildings (LED or Fluorescent) (Minimum of 3).
- Wall mounted panel heater.
- Wall mounted water heater.
- Suitable circuit breakers for installed distribution board.



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ECA/MPBA_C	Modular & Portable Building Pre-delivery Electrical Condition Inspection, Testing and Reporting and In Service Electrical Repair, Modification and Maintenance Combined Course
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The combined course is the delivery of courses ECA/MPBA01 and ECA/MPBA02 as a single course back-to-back, this enables efficiency in delivery, reducing the overall delivery of the two three-day courses by one day. The combined course is delivered over five days.

### Objectives

Given the underpinning knowledge, practical competencies, tools, test equipment and documentation at the end of the course candidates will be able to:

- Visually inspect a range of cabin electrical installations for common visual defects.
- Carry out safe isolation of a cabin.
- Carry out the appropriate electrical tests, complete and sign off the electrical pre-delivery inspection report form.
- Undertake replacement, additions and upgrades of electrical systems associated with modular and portable buildings when on site or awaiting dispatch from the depot.

### Course Content

1. ECS required Health and Safety.
2. Electrical Legislation and Regulations.
3. Basic Electrical Theory.
4. Understanding Electrical Components.
5. Understanding Installation Methods.
6. Practical Electrical Theory.
7. Circuit Design.
8. Electrical Testing Approach.
9. Allowable Installations (Power).
10. Allowable Installations (Lighting).
11. Practical Assessments.

### Course Assessment

Each candidate will be required to pass a multichoice Health And Safety test taken in an online environment under strict invigilation and also undertake a practical assessment completing the inspection and test of a cabin electrical installation and also the practical assessment of electrical installation.

### Outcome and Renewal

Candidates who successfully pass this course are deemed capable of the testing of wiring systems to a pre-determined design and completion of the appropriate document (Pre-Delivery Inspection and Test Report) and of adding new circuits and / or additional fittings to an existing system or can work on a system which is on site and connected to an electrical supply and completion of the appropriate documentation.

The qualification is accredited with the ECA- MPBA CSCS card and certificate, valid for 3 years from the date of card issue.

## Required Resources and Equipment

To undertake the course the candidates must have available:

- Access to a conference/meeting room with presentation facilities and adequate space for delegates and trainer. Training room to be occupied by a maximum of 7 (6 delegates + Trainer) all maintaining 1m+ distance at all times.
- Fully fitted module/container ready for PDI with connection to supply without RCD protection for practical test use.
- Electrical lock off kit to contain suitable equipment to make safe a module/container for test (i.e. Padlock, Labelling, Hasp, Socket Blank, etc).
- Suitable electrically insulated tools for tests and basic modifications.
- Test equipment for employee use to include:
  1. Voltage/Continuity tester (Fluke T90 or equivalent).
  2. Proving Unit (Fluke PRV240 or equivalent).
  3. Multifunction Electrical Tester (Megger MFT1711 or equivalent).
  4. Test probes (including wandering lead).
  5. Socket Tester (Martindale CP501 or Equivalent).

In addition, it is the responsibility of the customer to provide the following **components and parts** for use during the practical training and assessment:

- Suitable 2.5mm and 1.5mm cable of the type used normally (i.e. Twin and Earth or Flex).
- Earth and Brown Sleeving.
- Single Gang Pattress (Minimum of 4).
- Double Gang Pattress (Minimum of 4).
- Single Gang Switch Fused Spurs (Minimum of 3).
- Double Gang Twin Sockets (Minimum of 4).
- Single Gang Single Way Light Switch.
- Surface Mount PIR.
- Surface Mount Trunking (Various sizes as required).
- Suitable Light fittings for standard buildings (LED or Fluorescent) (Minimum of 3).
- Wall mounted panel heater.
- Wall mounted water heater.
- Suitable circuit breakers for installed distribution board.

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### ECA/MPBA01RN Modular & Portable Building Electrical Renewal.

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All candidates that have completed Level One only are required to attend a renewal course, undertaking the Health and Safety test and certification assessment to renew credentials.

The renewal course is run over two days with a number of knowledge refreshers and updated modules followed by the test and practical assessment of a test and inspection.

An updated qualification that is accredited with the ECA- MPBA CSCS card and certificate, valid for 3 years from the date of card re-issue.

There is a single renewal course for delegates that have completed Level 1 only or Level 1 and Level 2. It is important that the current ECS card number and confirmation of Level 2 completion with certificate number is provided on booking.

For candidates renewing Level 1 and Level 2 there will be an additional element to the practical assessment that would specific include a circuit modification or addition.

### **Required Resources and Equipment**

To undertake the course the candidates must have available:

- Access to a conference/meeting room with presentation facilities and adequate space for delegates and trainer. Training room to be occupied by a maximum of 7 (6 delegates + Trainer) all maintaining 1m+ distance at all times.
- Fully fitted module/container ready for PDI with connection to supply without RCD protection for practical test use.
- Electrical lock off kit to contain suitable equipment to make safe a module/container for test (i.e. Padlock, Labelling, Hasp, Socket Blank, etc).
- Suitable electrically insulated tools for tests and basic modifications.
- Test equipment for employee use to include:
  1. Voltage/Continuity tester (Fluke T90 or equivalent).
  2. Proving Unit (Fluke PRV240 or equivalent).
  3. Multifunction Electrical Tester (Megger MFT1711 or equivalent).
  4. Test probes (including wandering lead).
  5. Socket Tester (Martindale CP501 or Equivalent).

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### Related publications

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The primary publications associated with this qualification are the IEE Wiring Regulations: Requirements for Electrical Installations BS 7671 2018 and the On Site Guide. This publication can be obtained from the IET [www.theiet.org](http://www.theiet.org).

Other publications referred to in this qualification are The Electricity at Work Regulations 1989, The Health and Safety at Work Act 1974, The Management of Health and Safety at Work Regulations 1999 and The Provision and Use of Work Equipment Regulations 1998, copies available via **The Stationery Office Limited**.

Level Two candidates will receive a copy of the on-site guide for reference.

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### Course Delivery

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*Updated August 2021*

We are now able to offer training on a client site or within our custom fitted training centre located in Coventry.

#### Onsite Training

The maximum number of delegates for an onsite training course is restricted to eight (8) with the responsibility of the organising company to ensure that sufficient space is provided to ensure social distancing measures are adhered to. There is no minimum number of delegates.

#### Training Centre

The new MPBA Training Centre is located at C12 Generator Hall, Electric Wharf, Coventry, CV1 4JL. Dates for Level one and renewal courses will be published regularly at [www.mpba.biz](http://www.mpba.biz) and sent via email to all main training contacts.

Each course will be restricted to a maximum eight (8) delegates to ensure quality of delivery and social distancing. There is no minimum number of delegates.

For scheduled course dates please visit [www.mpba.biz/key-dates](http://www.mpba.biz/key-dates)

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### Terms and Conditions

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A course is not considered booked until receipt of a purchase order. The course will be invoiced in full on receipt of purchase order. Payment is required within 7 days of invoice, if payment has not been received before the date of the course delivery the course will not go ahead.

If the course is cancelled up to 7 days before the delivery date a cancellation fee of £160 per delegate will apply. If cancelled after 7 days before the delivery date the full value of the course will apply.

Once booked a delegate space cannot be cancelled, however, up to 7 days before the delivery of the course a delegate may be changed as long as the training location does not.

If a delegate does not attend day three of the training the course is none refundable and the full course (for that delegate) will need to be rebooked.

Changing the dates, delegate numbers or locations of training could require a full cancellation and rebook of the course. Changes will be accommodated as practically as possible, but fees may apply.

All fees quoted are subject to VAT at the standard rate.

### Retests and Replacement Cards

If the delegate fail's the H&S assessment within the 5 mark tolerance during the course a single opportunity to retest will be given during the course. If the delegate is required to take a retest following the training the cost will be £120 per delegate per test and will require the delegate to travel to a location provided by the MPBA to carry out the retest.

Following issue, if a replacement ECS card or certificate is required following the course due to loss a fee of £75 will be charged.

Please note that whilst we issue a physical ECS card all holders may access an electronic one using the MyECS app that can be downloaded onto most smart phones.

**<https://www.ecscard.org.uk/content/Manage-your-card-with-MyECS>**

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### Course Fees – From 1<sup>st</sup> January 2022

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**Scheduled Course Cost: Coventry Training Centre**

	No. Days	Delegate Cost		Exam Re-Sit*	
		Member	Non-Member	During Course	Post Course**
Level 1: PDI Course	3	£775	£950	£50	£150
Level 2: Inservice Electrical	3	£875	£1,050	n/a	n/a
Renewal	2	£575	£690	£50	£150
Electrical Safety unit	1	£355	£425	£50	£150
ESU Renewal	1	£195	£235	£50	£150

\* Per Test Required  
 \*\* Test to be taken at training centre

**In House Course Cost: Held at Customer location**

	No. Days	No. Delegates	Course Cost		Exam Re-Sit*	
			Member	Non-Member	During Course	Post Course**
Level 1: PDI Course	2	1	£2,005	£2,400	£50	£150
	2	2	£2,310	£2,775		
	3	3	£3,465	£4,160		
	3	4	£3,700	£4,440		
	3	5	£4,075	£4,890		
	3	6	£4,380	£5,260		
	3	7	£4,685	£5,630		
	3	8	£4,900	£5,880		

\* Per Test Required  
 \*\* Test to be taken at training centre or on future course

	No. Days	No. Delegates	Course Cost	
			Member	Non-Member
Level 2: Inservice Electrical	2	1	£2,005	£2,400
	2	2	£2,310	£2,775
	3	3	£3,465	£4,160
	3	4	£3,700	£4,440
	3	5	£4,075	£4,890
	3	6	£4,380	£5,260
	3	7	£4,685	£5,630
	3	8	£4,900	£5,880

	No. Days	No. Delegates	Course Cost		Exam Re-Sit*	
			Member	Non-Member	During Course	Post Course**
Renewal	1	1	£1,115	£1,400	£50	£150
	1	2	£1,380	£1,800		
	2	3	£2,495	£3,150		
	2	4	£2,760	£3,550		
	2	5	£3,025	£3,900		
	2	6	£3,290	£4,225		
	2	7	£3,555	£4,610		
	2	8	£3,820	£4,995		

\* Per Test Required  
 \*\* Test to be taken at training centre or on future course

	No. Days	No. Delegates	Course Cost		Exam Re-Sit*	
			Member	Non-Member	During Course	Post Course**
Electrical Safety Course	1	4	£2,070	£2,490	£50	£150
	1	5	£2,375	£2,850		
	1	6	£2,680	£3,225		
	1	7	£2,985	£3,585		
	1	8	£3,290	£3,950		
	1	9	£3,595	£4,315		
	1	10	£3,900	£4,680		
	1	11	£4,205	£5,050		
	1	12	£4,510	£5,450		

\* Per Test Required  
 \*\* Test to be taken at training centre or on future course

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**Proposals and Bookings**

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To receive a proposal for a specific course and/or to arrange preliminary dates please contact:

**Abbie Hipkiss**  
**Training Administrator**

Email: **Abbie@mpba.biz**

Office: 02475 901938

DDI: 02475 264484