



Totally Focused. Totally Independent.

Totally committed to

# Satisfying Your Training Requirements



The world's largest  
independent producer of  
alternators 1 – 5,000kVA

# Training at Mecc Alte

“Independent, Focused and Specialist”: are the three words that epitomise Mecc Alte’s business practices: our company is a world-leading producer and supplier in the fiercely competitive market of alternators. Our total independence and focus are evident in everything we do, and resonates from the foundations and ethos of which our business was established in 1947, and still remains to this day.

This independence allows us to develop key partnerships with our customers, clients, end users and all people working within the electro-mechanical or power generation sectors. It enables our entire resource to be shared through training and education programmes and workshops. Our purpose-built UK factory manufactures alternators from 8-2,500kVA, over 100 machines are manufactured each day, ranging in size and specification; this allows our courses to maintain a ‘hands-on’ and practical edge. With a modular syllabus, we can tailor the training content to individuals’ requirements, and the depth of the course can be altered to match the client’s level of expertise. We recognise the value for us to support all alternator users, our training courses incorporate basic alternator theory and principles, right through to the complex issues of parallel operation, soft starting and digital voltage regulators.

Our specialised focus on alternators, coupled with state-of-the-art technology, industry innovations and our up-to-date course content means there is little wonder why so many of our customers see us as the natural choice for alternator training.





# Course Basics

## For booking and course administration

call Mecc Alte on

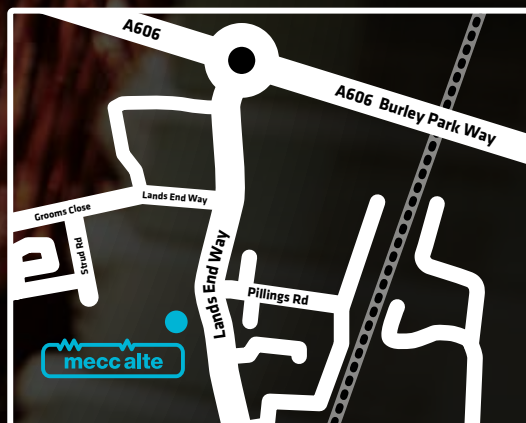
**01572 771 160**

or email

**[service@meccalte.co.uk](mailto:service@meccalte.co.uk)**

Your course will be held at Mecc Alte UK head office

**6 Lands' End Way, Oakham, Rutland LE15 6RF**



**The course will commence at 9am and finish at 4pm**

**Lunch of a cold buffet style will be provided**

**Please ensure that you bring the following equipment:**

- ▶ Safety boots

(Additional safety equipment will be provided on site, as and if needed.)

**Please contact Mecc Alte at least 36 hours before your course commencement to confirm attendance.**

Mecc Alte maintain the flexibility to tailor the training courses around customer requirements in regards to location and timings, however course content will be dependent upon the availability of suitable machinery.

# AMPS Training Scheme

## Module AC Generators

### Level One: Basic Certification

Cost per full day £550 at Mecc Alte UK for mixed workshop / classroom-based sessions.

| Syllabus     | Module | Subject                                   | Coverage   |
|--------------|--------|---|--|
| Tech Level 1 | A      | Basic Alternator Theory and Principles    | Induction, identification of components, theory of operation             |
| Tech Level 1 | B      | Types of Alternator                       | Brushless vs brushed design  |
| Tech Level 1 | C      | Winding Configurations and Re-connections | Types of connections and voltage ratings, limitations, 3Phase vs 1 Phase |
| Tech Level 1 | D      | Alternator Construction                   | Alternator construction, practical demonstration                         |
| Tech Level 1 | E      | Excitation Systems                        | Avr, capacitor, transformer  |
| Tech Level 1 | F      | Insulation Classes                        | Ratings, materials   |
| Tech Level 1 | G      | Fault Finding                             | Practical use of DMM and MEGGER, modes of failure                        |
| Tech Level 1 | H      | Automatic Voltage Regulators Part I       | Types of AVR and uses, ancillary equipment                               |
| Tech Level 1 | I      | Routine Maintenance                       | Routine schedules and recommendations, condition monitoring              |

### Level Two: Advanced Certification (Must complete Level One before taking Level Two)

Cost per ½ day £300 at Mecc Alte UK for mixed workshop / classroom-based sessions.

| Syllabus     | Module | Subject                               | Coverage  |
|--------------|--------|---------------------------------------|---|
| Tech Level 2 | J      | Power Factor and Load Characteristics | Types of load and their effects   |
| Tech Level 2 | K      | Operational Limits                    | Sphere of operation limits and power factor                               |
| Tech Level 2 | L      | Short Circuit and Overloads           | Short circuit and overload, effects of sub transient reactance            |
| Tech Level 2 | M      | Parallel Operation                    | Theory of operation, droop transformer and the effects of control systems |
| Tech Level 2 | N      | Automatic Voltage Regulators Part II  | Practical, digital AVR setup, software analysis                           |

Completion of the Level Two Advanced Certificate requires completion of any three of the five modules indicated in the course content syllabus. These can be decided beforehand by the relevant candidate.

# Training Scheme Module

## AC Generators

### Level One: Basic Certification

Full day at Mecc Alte UK for mixed workshop / classroom-based sessions.

| Syllabus     | Module | Subject                                   | Coverage   |
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| Tech Level 1 | D      | Alternator Construction                   | Alternator construction, practical demonstration                         |
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| Tech Level 1 | F      | Insulation Classes                        | Ratings, materials   |
| Tech Level 1 | G      | Fault Finding                             | Practical use of DMM and MEGGER, modes of failure                        |
| Tech Level 1 | H      | Automatic Voltage Regulators Part I       | Types of AVR and uses, ancillary equipment                               |
| Tech Level 1 | I      | Routine Maintenance                       | Routine schedules and recommendations, condition monitoring              |

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