

Vehicle Enhancement Certification Programme

PROSPECTUS 2010

INSTALLATION TECHNICIAN QUALIFICATIONS & ACCREDITATION

Introduction

Qualifications

MESF Certificate 1 Basic Installation

MESF Certificate 2 Intermediate Installation

MESF Certificate Installation Skills

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MESF Technician Accreditation

Fees and Booking



VECP
Vehicle Enhancement Certification Programme

MESF
Mobile Electronics &
Security Federation



INTRODUCTION

WHAT IS THE MESF?

MESF stands for the Mobile Electronics and Security Federation, the trade association with responsibility for ensuring the vehicle enhancement industry's future.

A mature industry provides a career path with educational support for its workers; the MESF strongly recommends you embark on this career path and strive to progress by continuous professional development to the ranks of the industry's top accredited installation technicians.

- The MESF is backed by manufacturers, retailers, installers, and concerned industry professionals whose primary goal is to ensure the vehicle enhancement industry, your industry, has a healthy future.
- There is strong customer desire to have the latest enhancement products installed in their vehicles long before the vehicle makers can incorporate them.
- Customer demand is for these enhancement products to be integrated to the same, or higher, standards of the vehicle assembly line. This can only be achieved by trained, qualified and accredited technicians.
- Programme designed and operated to encourage the achievement of goals.
- Courses require little or no time loss from work.
- Technicians with at least 2 years experience can take tests without a course.
- Vehicle enhancement industry technicians have the ability to deliver 'Better Than New'.

WHY QUALIFICATIONS AND ACCREDITATION ARE ESSENTIAL: CUSTOMER PERCEPTIONS

When a customer makes a commitment to upgrade their car audio, security, navigation or communication system, they're looking to you and your company to provide them with the professionalism and service that is part of their purchase decision.

- Today's customers are more demanding than ever before - they expect new vehicle quality on their installations. Accordingly, you need to keep pace with the latest techniques to ensure the final product exceeds your customer's expectations and is 'Better Than New'.

RESPONSIBILITY

Everyone has a moral and legal duty of care to maintain the safety of others. For an installation technician this is an important responsibility as many things can affect the safe operation of a motor vehicle and put lives at risk.

- A qualified and accredited installation technician will have the skills and knowledge to avoid safety issues plus the reassurance that **should the integrity of an installation be questioned their certification will document their competence.**

BENEFITS

MESF qualification and accreditation :

- MESF membership for individuals
- Motor industry approved.
- Qualifies the people who do the work.
- Demonstrates an "I care" attitude.
- Demonstrates commitment, dedication and professionalism.
- Keeps technicians up to date with vehicle and product technology.
- Documents technicians' knowledge and experience for customers, employers and insurers.

HOW CAN YOU GET QUALIFIED AND ACCREDITED?

The MESF operates the Vehicle Enhancement Certification Programme of courses and examinations which lead to qualifications and accreditation.

- There are no entry restrictions for the VECP.
- Just complete the application and pre-test forms and pay the initial fee to get started.

MESF

Career Path

Installation Technician

Qualifications

recognition and status for installation technicians
qualification plus experience leads to accreditation

A relevant, up to date qualification is as essential to an installation technician as a fully equipped tool box. Whereas tools provide the means to carry out an installation a qualification provides the installation technician with the credibility and the authority to do the job and is an essential element of the accreditation process.

Laws on liability and culpability mean that an unqualified installer would be at a serious disadvantage where blame for an accident or incident was being determined. An employer or contractor of an unqualified installer would also be in difficulty if responsibility was an issue.

Successful tests are valid for three years and must be retaken to maintain a qualification.

MESF Certificate 1 Basic Installation

This qualification covers topics such as Electrical Laws and Formulas, Electrical Components, Basic Installation Practices. General Installation Tools and Equipment and Safety. It is achieved by passing a theory test.

MESF Certificate 2 Intermediate Installation

This qualification covers a greater depth of knowledge of the topics in Certificate 1 plus broad knowledge of one of the subjects listed below:

Security Installation

Audio Installation

Mobile Communications Installation

It is achieved by passing a theory test.

MESF Certificate Installation Skills

This qualification is based on the topics covered in Certificate 1 plus one of the subjects from Certificate 2. It is achieved by successfully meeting the requirements of an audited inspection of an installation in progress.

MESF Certificate 3 Advanced Installation

This qualification is awarded when a second Certificate 2 subject test pass is achieved. The subject has to be different from that already certificated.

It is achieved by passing a theory test.

MESF Certificate 4 Master Installation

This qualification is awarded when a third Certificate 2 subject test pass is achieved. The subject has to be different from those already certificated.

It is achieved by passing a theory test.

To maintain a qualification at least one Certificate 2 has to be valid

Technicians with at least 2 years experience can take tests without a course.

Other subjects are in preparation

MESF

Certificate

1 Basic Installation

Study Course

essential first qualification for installation technicians
foundation certificate for progression in vehicle enhancement

The MESF Certificate 1 Basic Installation qualification is achieved by a self study or tutored course. Both methods use the same MESF Study Guide 1 Basic Installation as the learning aid to gaining the qualification.

This is what you will find in your **MESF** Study Guide 1 Basic Installation:

Application for Training Form

Pre-course Test

Complaints and Appeals Procedure

Introduction

Electrical Section 1

Electrical Laws and Formulas

Electrical Components

Troubleshooting Basics

Relays, Batteries and Cables

Semiconductors

Installation Section 2

Electrical, Safety and Charging Systems

Basic Installation Practices

Battery Troubleshooting

Meters and Test Equipment

General Installation Tools and Equipment

Workshop Safety

Troubleshooting

HOW TO STUDY and GAIN YOUR MESF CERTIFICATE 1 QUALIFICATION

SELF STUDY COURSE

You have nine months to study for the test which is held at a venue of your choice.

You work on your own studying the content highlighted for the Basic Installation test.

When you are ready for your test, contact the MESF to arrange your local testing procedure.

DISTANCE LEARNING TUTORED COURSE

You have nine months to study for the test with the guidance of a tutor.

Your tutor will set tasks for you to complete and offer advice and feedback on your progress.

The test will be arranged for you when the tutor considers you are ready - subject to the nine month limit.

DIRECT TUTORED COURSE

The tutored course with test lasts for two days under classroom conditions.

Your tutor concentrates on the topics relevant to your test, therefore it is essential you pre-study for a minimum of two weeks before the course.

Courses have a maximum of ten students to maintain individual attention.

CHOOSE HOW YOU STUDY FROM THESE THREE METHODS

The study material and test is the same

Tests must be taken within nine months otherwise a test fee will be charged

MESH

Certificate

2 Intermediate Installation

Study Course

second qualification for installation technicians

next certificate for progression in vehicle enhancement

The MESH Certificate 2 Intermediate Installation qualification is achieved by a self study or tutored course. Both methods use the same MESH Study Guide as the learning aid to gaining the qualification.

Choose 1 subject from the current list:

MESH Security

MESH Audio

MESH Mobile Communications

This is what you will find in your MESH Study Guide:

Accreditation application form

Security

Control Units

Sirens

Switches

Sensors

Immobilisation

Remote Control Transmitters

Accessory Output Devices

Location/Tracking Systems

Miscellaneous Tips

Audio

Audio Basics

Crossovers

Loudspeakers

Subwoofer Enclosure Design

Noise and Interference

Noise Trouble Shooting

Using Testing Equipment

Battery and Electrical Systems

Antennas

Mobile Communications

Networks

Legal and Safety

Antennas

Planning the Installation

Install Procedures

Post Installation Checks

Vehicle Departure

Troubleshooting

Choose one subject for your MESH Certificate 2 Intermediate Installation qualification

HOW TO STUDY and GAIN YOUR MESH CERTIFICATE 2 QUALIFICATION

SELF STUDY COURSE

DISTANCE LEARNING TUTORED COURSE

DIRECT TUTORED COURSE

CHOOSE HOW YOU STUDY FROM THESE THREE METHODS

The study material and test is the same

Tests must be taken within nine months otherwise a test fee will be charged

Qualifications are valid for three years. Re-qualify at this level or a higher level

MESH

Certificate Installation Skills Audit

skill assessment for installation technicians
shows practical skill for progression in vehicle enhancement

The MESH Certificate Installation Skills is achieved by demonstrating to an assessor a range of installation skills based on the theories in MESH Certificate 1 and MESH Certificate 2. The audit will consist of the observation of a 'real' installation and the completion of some assessor set tasks to cover procedures not observed during the installation.

Choose 1 subject from :

MESH Security

MESH Audio

MESH Mobile Communications

Note: The MESH Certificate Installation Skills audit subject chosen has to be the same as the subject selected for MESH Certificate 2 Intermediate Installation.

This is what will be assessed in your **MESH** Certificate Installation Skills audit:

Basics

Basic Installation Practices

Workshop Safety

Meters and Test Equipment

Electrical Components

General Installation Tools and Equipment

Testing

Relays, Batteries and Cables

Customer Handover

Trim removal and re-instatement

Choose one subject from:

Security

Audio

Mobile Communications

Control Units

Audio Basics

Planning the Installation

Sirens

Loudspeakers

Install Procedures

Sensors

Noise and Interference

Post Installation Checks

Immobilisation

Antennas

Vehicle Departure

You will be supplied with an audit requirements guide

HOW TO ACHIEVE YOUR MESH CERTIFICATE INSTALLATION SKILLS

Pass your MESH Certificate 1 Basic Installation course.

Begin studying for an MESH Certificate 2 Intermediate Installation subject.

Study the audit requirements guide. Ensure you can meet the standards expected.

When you are ready for your audit, contact the MESH to arrange your local audit procedure.

You will be audited on one of your own installation jobs at your place of work.

You must be sure the installation to be audited is of a level of complexity as indicated in the audit requirements guide.

MESF

Certificate

3 Advanced Installation Study Course

third qualification for installation technicians

advancement certificate for continued progression

This Certificate builds on success by adding a second product group to the Installation Technician's MESF Certificate 2.

The MESF Certificate 3 Advanced Installation qualification is achieved by a self study or tutored course. Both methods use the same MESF Study Guides as the learning aid to gaining the qualification.

Choose one subject other than that already tested at MESF Certificate 2 from the current list.

To maintain the MESF Certificate 3 qualification one test pass must remain current

MESF

Certificate

4 Master Installation Study Course

final qualification for installation technicians

prestigious certificate for continued progression

This Certificate builds on success by adding more product groups to the Installation Technician's MESF Certificate 3 qualification.

The MESF Certificate 4 Master Installation qualification is achieved by a self study or tutored course or courses. Both methods use the same MESF Study Guides as the learning aid to gaining the qualification.

Choose one or more subjects other than those already tested at MESF Certificate 3 from the current list.

To maintain the MESF Certificate 4 qualification one test pass must remain current

MESF

Career Path Installation Technician Accreditation

recognition and status for installation technicians
qualification plus experience leads to accreditation

The MESF has established levels of knowledge, experience and skill for installation technicians against which accreditation can be awarded. By bringing together qualifications and industry involvement, the MESF's career path accreditation gives installation technicians goals to achieve, demonstrates pride in their abilities and the industry that employs them and for employers, insurers and consumers determines the competence they can expect. The vehicle enhancement industry is diverse and varied; an installation technician may specialise in one area at a time but still have an interest and involvement in others. For this reason the MESF Career Path accommodates specialisation and encourages gaining broader based knowledge and skills as part of continuous professional development.

MESF Student

This is an individual who has signed on to an MESF Certificate 1 Basic Installation course without having employment in the industry. An MESF Student with the MESF Certificate 1 Basic Installation qualification is ready to begin a career in vehicle enhancement.

MESF Registered Installation Technician

This is an individual who is employed in the industry and has completed a relevant industry course or is studying for their MESF Certificate 1 . An MESF Registered Installation Technician with the MESF Certificate 1 Basic Installation qualification is at the first stage of advancement in a career in vehicle enhancement.

At this level a technician can install a limited and controlled range of products.

MESF Accredited Installation Technician

This is an individual who has gained the MESF Certificate 1 Basic Installation qualification plus has a minimum of two years employment in the vehicle enhancement industry and has attended at least two relevant industry courses.

At this level a technician will be competent to install, service and diagnose a controlled range of products.

MESF Enhancement Technician

This is an individual who has gained the MESF Certificate 2 Intermediate Installation qualification in a specific product group and has achieved the MESF Certificate Installation Skills in the same product group. The MESF Enhancement Technician will have a minimum of three years employment in the vehicle enhancement industry and have attended at least three relevant industry courses.

At this level a technician will be able to specify and install a wide and varied range of products as well as service, diagnose and rectify faults in them. The MESF Enhancement Technician will have some knowledge of a range of vehicle wiring systems and be competent to direct the work of others in the qualified product group.

Next page: MESF Advanced Enhancement Technician MESF Master Enhancement Technician

MESH

Career Path

Installation Technician

Accreditation

recognition and status for installation technicians
qualification plus experience leads to accreditation

MESH Advanced Enhancement Technician

This is an individual who has gained the MESH Certificate 3 Advanced Installation qualification in two specific product groups and has achieved the MESH Certificate Installation Skills in one of the product groups. The MESH Advanced Enhancement Technician will have a minimum of four years employment in the vehicle enhancement industry and have attended at least four relevant industry courses.

At this level a technician will be able to specify and install a wider and more varied range of products as well as service, diagnose and rectify faults in them. The MESH Advanced Enhancement Technician will have sufficient knowledge of vehicle wiring systems to achieve integration and also be competent to direct the work of others.

MESH Master Enhancement Technician

This is an individual who has gained the MESH Certificate 4 Master Installation qualification in at least three specific product groups and has achieved the MESH Certificate Installation Skills in at least one of the product groups. The MESH Master Enhancement Technician will have a minimum of six years employment in the vehicle enhancement industry and have attended at least six relevant industry courses.

At this level a technician will be able to specify and install a comprehensive and varied range of products as well as service, diagnose and rectify faults in them. The MESH Master Enhancement Technician will have a broad knowledge of vehicle wiring and construction and be able to investigate unfamiliar vehicles to determine successful integration. The MESH Master Enhancement Technician will also be competent to direct the work of others.

Because of the high levels of knowledge and skills MESH Master Enhancement Technicians possess they will be leading the development of the installation techniques required by the introduction of new vehicle and enhancement product technology. They will also be active in sharing their knowledge and skills with other installation technicians and keeping training material up to date.

An MESH Master Enhancement Technician is a dedicated professional and a role model for others.

Fees

There is no fee for Accreditation. All costs involved are met by the course, audit and re-test fees where applicable. A photo ID card is available on request.

Maintenance

To maintain Accreditation all qualifications and audits must remain valid and in date with industry relevant courses attended (at least one per year).

An industry relevant course could be a new product introduction, a technical seminar or a training course. Participation can be by attendance, self study, distance learning or any method which includes evidence of participation and/or outcome i.e. a dated certificate.



MESH

Career Path

Installation Technician Accreditation

QUALIFICATION by examination	with EXPERIENCE	leading to ACCREDITATION
MESH Certificate 1 Basic Installation	none required Register some industry experience Pass Examination 2 years industry experience 2 industry courses attended	MESH Student MESH Registered Installation Technician MESH Accredited Installation Technician
MESH Certificate 2 Intermediate Installation	Choose 1 subject from: MESF Security Installation MESF Audio Installation MESF Mobile Communications Installation MESF Safety Installation Pass Examination	
MESH Certificate Installation Skills	Choose 1 subject for audit from: MESF Security Installation MESF Audio Installation MESF Mobile Communications Installation MESF Safety Installation Pass Installation Skills Audit	1 valid MESH Audit Certificate 1 valid MESH Subject pass (From subject list on left) 3 years industry experience 3 industry courses attended MESH Enhancement Technician
MESH Certificate 3 Advanced Installation	Choose 2 subjects from: MESF Security Installation MESF Audio Installation MESF Mobile Communications Installation MESF Safety Installation Pass 2 Examinations	1 valid MESH Audit Certificate 2 valid MESH Subject passes (From subject list on left) 4 years industry experience 4 industry courses attended MESH Advanced Enhancement Technician
MESH Certificate 4 Master Installation	Choose 3 subjects from: MESF Security Installation MESF Audio Installation MESF Mobile Communications Installation MESF Safety Installation Pass 3 Examinations	1 valid MESH Audit Certificate 3 valid MESH Subject passes (From subject list on left) 6 years industry experience 6 industry courses attended MESH Master Enhancement Technician

Examinations and Audits are valid for three years and require renewal to remain valid and maintain Accreditation grade
 Valid Subject passes are carried forward from lower to higher Certificates and Accreditation grades

Note: MESF Safety Installation is in preparation
 More examinations will be added to the VECP to cover other vehicle enhancement subjects

MESF

Career Path

MESF Certificates

Fees 2010

MESF Certificate 1 Basic Installation

Self Study Course	£120.00
Distance Learning Course	£415.00
Direct Tutored Course	£515.00

MESF Certificate 2 Intermediate Installation

	Each subject
Self Study Course	£120.00
Distance Learning Course	£415.00
Direct Tutored Course	£515.00

MESF Certificate Installation Skills Audit

£215.00

MESF Certificate 3 Advanced Installation

	Additional subject
Self Study Course	£120.00
Distance Learning Course	£415.00
Direct Tutored Course	£515.00

MESF Certificate 4 Master Installation

	Additional subject
Self Study Course	£120.00
Distance Learning Course	£415.00
Direct Tutored Course	£515.00

MESF Certificate (except Audit)

	Any Certificate
Test only	£60.00
Re-Test only	£40.00

MESF Accreditation

Photo ID Card (Optional)	£10.00
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MESF Business Member Multiple Employee scheme available - Call for details



MESF

Booking Form

MESF Certificate 1

Courses & Tests 2010

Use this form to book a course for yourself

Please complete, print, sign and return this form with your **cheque (made payable to MESF)**, or telephone 01376 561040 with your **credit/debit card** details.

Name:

Home Address:

Post Code:

Tel No:

Email Address:

Please tick and complete as appropriate:

MESF Certificate 1 Basic Installation

Self Study Course

Price
£120.00

Immediate start - Complete within nine months

Distance Learning Course

£415.00

Immediate start. Test Date within nine months will be set by your tutor

Direct Tutored Course

£515.00

Enter Course Induction Date preferred

(See MESF website or call 01376 561040): _____

Direct Tutored Courses require a minimum of 3 and maximum of 10 candidates - therefore dates may be subject to alteration or cancellation

Booking is not confirmed until payment received. *Payment must be made at least 21 days before course date.*

Test only

£60.00

Re-Test only

£40.00

I..... confirm I am booking the above course
signature

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TO BOOK A COURSE FOR AN EMPLOYEE TELEPHONE 01376 561040