

Unit 3 & 4, Mountrath Enterprise Park
Portlaoise Road, Mountrath
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Phone: +353 (0) 57 8756540

Fax: +353 (0) 57 8756539

Email: info@metac.ie Web: www.metac.ie

METAC



MIDLAND ENERGY TRAINING & ASSESSMENT CENTRE



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HEATING  **PLUMBING**  **ENERGY**

TRAINING

METAC is the Largest Energy Training & Assessment Centre in Ireland or UK. The Training and Skill development services provided by METAC Ltd. are recognised by FAS, FETAC, UKAS, Bord Gáis and Oftec.

All Gas & Oil Courses are independently Assessed and Certified by ERS Certification and approved by BORD GAIS and OFTEC.

All Solar Energy, Heat Pump & Biomass Wood Renewable Energy Courses are certified by FETAC and approved by Sustainable Energy Ireland.

GRANT AID MAY BE AVAILABLE <> SUBJECT TO TERMS & CONDITIONS.

THE CENTRE PRESENTS THE FOLLOWING TRAINING COURSES.

GAS Introduction Training.

GIS. (GAS Installer Safety).

GID. (GID Gas Installer Domestic).

DSC (Domestic Gas Servicing).

NDG.(Non Domestic/Commercial Gas)

OFT 50/101/105e/600a. (Oil Technician).

Oil Delivery Drivers.

Telegan Analysers.

Heating Controls.

Insulation Training.

Occupational First Aid.

Safe Pass.

SIGA Air Tightness.

Train The Trainer.

Hardware Sales <> Energy Training

Renewable Energy.

Solar Energy.

Heat Pumps.

Biomass/Wood Pellet.

Unvented Hot Water Cylinder.

Heat Recovery & Ventilation.

Heating Controls.

Air Pressure Testing.

BER Energy Rating.

Water Regulations.

Water Treatment.

Practical Solar Energy.

Energy Harness.

C.H.P. (Combined Heat & Power).

Wind Energy.

The Centre has 10 Theory Training Rooms along with 10 Fully Fitted Practical Training Rooms with up to date Systems and Technology along with Two Canteens with Seating for 80 persons.

Phone: 057 8756540

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OUR AIM

Our aim is dedicated to assisting Installers and Service Technicians in the energy field in achieving the highest possible standards through a Theoretical and Practical approach to Training Installers and Service Technicians using the most up to-date Equipment and Technology available.

The Training offered is in accordance with Legislation and the requirements of Suppliers who provide products to METAC to facilitate training

Our aim is also to meet the demands of today and the future efficient use of energy and provide Installers and Service Technicians with best practice information and knowledge in the work they carry out

With our experience, qualifications and knowledge we can offer course participants the best possible Training and Qualifications to achieving the highest possible standards in their chosen field.

BOOKING A COURSE.

A place may be reserved by calling 057 8756540 or email info@Metac.ie with payment of a non-refundable deposit and the full balance of course fee is payable prior to registration.

Under no circumstances will course fees be refunded after date of registration.

In the event of a participant needing to cancel their booking, a request is received no later than 7 days prior to the commencement date of the course booked. Receipt of any request less than 7 days prior to course commencement will not be facilitated, as Metac will not have sufficient time to fill the place reserved.

Otherwise deposits will only be refunded if, on receipt of your deposit by Metac Ltd the course has been filled or you are not accepted for a course.

Metac Ltd reserves the right to change course schedules without notice and in the event of insufficient participants enrolling on a course Metac Ltd reserves the right to cancel the course in which event it will refund all fees paid.

This Brochure is issued primarily as a guide to prospective applicants to METAC Ltd and is not to be viewed as a contract between METAC Ltd. and the applicant or any other party.

While every effort has been made to ensure that the information contained in this brochure is correct METAC Ltd. is not liable for any errors herein

WE LOOK FORWARD TO WELCOMING YOU TO METAC LTD.

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GIS

Gas Installer Safety Course

GIS - Gas Installer Safety <> Training Course.

AIM:

The aim of this course is to provide participants with the skills and related knowledge to enable them to work safely with Domestic and Non-Domestic Gas Installations under supervision having passed the course assessments.

Objectives:

The programme will provide an extensive insight into Gas Installer Safety and will prepare candidates for end of programme Theory and Practical Assessments leading to qualification to attend the GID (Gas Installer Domestic) Training Course.

MODULES:

- **Module 1** Safety Standards
- **Module 2** Combustion
- **Module 3** Flues & Ventilation
- **Module 4** Installations
- **Module 5** Pressure & Flow
- **Module 6** Gas Appliances

TRAINEE PROFILE:

Entry requirement for GI 1 Safety is;

- National Craft Certificate in Allied Trade/EU equivalent of NCC.
- City and Guilds Certificate (Advanced) in Allied Trade.
- Department of Education, Senior Certificate in Allied Trade.
- Completion Apprenticeship Certificate (ANCO/Fás).
- A letter of introduction signed by a nominated person from Bord Gáis, Calor Gas or Flo Gas (Irish Liquid Petroleum Gas Association) in respect of individuals who have relevant experience in the Gas industry.

Application;

Applications Forms with all details including payment to be completed before Training/Assessment commences.
Three recent photographs (Passport style size, in colour) to be submitted with Application.

LOCATION: Metac Ltd.

DURATION: 6 days (2 Days per week for 3 Weeks.
Mon/Tue or Wed/Thu or Fri/Sat).

COURSE FEE: €720. (Contact Metac for Updates on Special Prices).

CERTIFICATION: This Course is certified by ERS Certification and INAB Accredited.

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GID

Gas Installer Domestic Course

GID - Gas Installer Domestic <> Training Course.

AIM:

On completion of this course the Craft-person will have acquired the knowledge and skills to enable them to install and admit gas safely to domestic gas installations having passed the in-course assessments and end of course tests.

Objectives:

The programme will provide an extensive insight into Gas Installer Domestic Installations and will prepare candidates for end of programme Theory and Practical Assessments leading to qualification to register with RGII as a Registered Gas Installers (RGI) as per the Energy (Miscellaneous Provisions) Act 2006 with effect from 01st January 2009.

MODULES:

- **Module 1** Gas Installation Level One Safety Review
- **Module 2** Electricity and Electrical Control
- **Module 3** Gas Meter Installation and Isolation
- **Module 4** Combustion Analysers, Flame Protection Devices and Combustion Safety
- **Module 5** Customer Relations And Commissioning Installations
- **Module 6** End of Unit Written and Practical Assessments.

TRAINEE PROFILE: Must have a GIS / GI 1 Certification.

Application;

Applications Forms with all details including payment to be completed before Training/Assessment commences. **Three recent photographs (Passport style size, in colour) to be submitted with Application.**

LOCATION: Metac Ltd.

DURATION: 12 days. (2 Days per week for 6 Weeks <> Mon/Tue, or Fri/Sat)

COURSE FEE: €1,500 (Contact Metac for Updates on Special Prices).

CERTIFICATION: This Course is certified by ERS Certification and INAB Accredited.

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DSC

Domestic Servicing Course. (GAS).

DSC - Gas Domestic Servicing <> Training Course.

Aim:

The aim of this course is to provide participants with the skills and related knowledge to enable them to diagnose faults, service & repair a range of cookers, fires, and central heating boilers to manufacturer's specifications and to comply with current regulations and codes of practice and to achieve certification.

Objectives:

The programme will provide an extensive insight into Gas Appliance & Boiler Servicing, Fault Finding, Repairs and Maintenance and will prepare candidates for end of programme Theory and Practical Assessments leading to Certification on Gas Boiler Servicing.

CONTENT:

- **Module 1** Review of Flueing, Ventilation and Soundness Testing
- **Module 2** Fault Finding Techniques & Testing
- **Module 3** Gas Cookers
- **Module 4** Gas Fires
- **Module 5** Central Heating Boilers
- **Module 6** Combination Boilers
- **Module 7** Condensing Boilers
- **Module 8** Legal aspects and Documentation of Service Work
- **Module 9** Practical Training Workshops.
Extensive Practical Training Workshops on Product Identification <> Product Types <> Fault Identification <> Product Repairs <> Product Maintenance <> System Applications.
Practical Training on all the various types of equipment.

TRAINEE PROFILE: Applicants must hold a GID or a GI 2 Certificate.

Application;

Applications Forms with all details including payment to be completed before Training/Assessment commences.
Three recent photographs (Passport style size, in colour) to be submitted with Application.

LOCATION: Metac Ltd.

DURATION: 12 days. (2 Days per week for 6 Weeks <> Fri/Sat)

COURSE FEE: €1,800 **(Contact Metac for Updates on Special Prices).**

CERTIFICATION: This Course is certified by Blueflame Certification

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GIND GAS INSTALLER NON-DOMESTIC COURSE.

Industrial & Commercial Gas <> Training Course.

Aim:

The aim of this course is to provide qualified participants with the Skills and Knowledge relating to Safety Regulations, Procedures and Standards which must be applied to enable participants to install and admit Gas safely to Industrial and Commercial gas installations to manufacturer's specifications and to comply with current regulations and codes of practice and.

The course will prepare candidates for end of programme Theory and Practical Assessments.

Objectives:

On completion of this course the participant will have acquired an extensive insight into Industrial and Commercial Gas Installations and have acquired the Skills and Knowledge to safely carry out Industrial and Commercial Gas Installations.

CONTENT:

- **Module 1** Introduction.
 - **Module 2** Industrial & Commercial Gas Installation Systems.
 - **Module 3** Health & Safety Regulations.
 - **Module 4** Building Regulations.
 - **Module 5** Ventilation.
 - **Module 6** Flues.
 - **Module 7** Gas Rate Appliance.
 - **Module 8** Burner Pressure.
 - **Module 9** Flame Picture.
 - **Module 10** Pipe Sizing.
 - **Module 11** Strength Testing.
 - **Module 12** Soundness Testing.
 - **Module 13** Purging.
 - **Module 14** Commissioning.
 - **Module 15** Practical Workshop.
- Practical Training Workshops on various Products & Equipment <> Product Identification <> Product Types <> System Applications.**

TRAINEE PROFILE: Qualified Persons involved in Industrial and Commercial Gas Installations

LOCATION: Metac Ltd.

DURATION: TBA.

COURSE FEE: €TBA



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OFTEC OIL TRAINING COURSE

Full Package 4 in 1 - OFTEC 50/101/105e/600a.

Duration = 5 weeks @ two days per week.

COURSE FEE = €1,800

OFT 50 - Domestic Oil Firing Introduction Course	OFT 101 - Domestic/Light Commercial Oil Firing Assessment	OFT 105E - Domestic/Light Commercial Oil Firing Installation Course	Oft 600a - Oil Storage Tank Installation Course
<p>AIM : To upgrade the skills and knowledge of the craft-persons as oil burner service engineers and progress through further training and work experience to OFTEC registration.</p> <p>CONTENT :</p> <ul style="list-style-type: none"> Safety Requirements Oil Specifications Fuel Efficiency Flues & Ventilation Float Control Values & Oil Lifters Burners - Vaporising & Pressure Jet Type Burner Control, Start up and Shut down sequence Servicing & Commissioning Procedures <p>TRAINEE PROFILE : Craftsperson's who wish to gain employment as oil business service engineers.</p>	<p>AIM : To provide assessment to prove the competence of existing oil burner commissioning and service engineers who already have gained experience or qualifications in the field.</p> <p>CONTENT:</p> <ul style="list-style-type: none"> Safety Requirements Codes of Practice Current Standards Building Regulations Oil Specifications Fuel Efficiency Flues & Ventilation Oil Supply & Storage Burners - Vaporising & Pressure Jet Type Burner Control, Start up and Shut down sequence Basic Fault Finding Techniques Heating System Considerations 	<p>AIM : This module is for experienced central heating installers who want to become OFTEC Registered as Installation Technicians. It covers the regulations and standards' applying to oil fired heating installations, and also includes assessment that leads to OFTEC Registration. Technical literature and course study notes are provided.</p> <p>CONTENT:</p> <ul style="list-style-type: none"> Safety Requirements Types of Oil Firing Heating & Cooking equipment Fuel Feed Pipe-work Flues & Ventilation Oil Storage Boiler Changeovers Heating System Circulation Thermostatic Controls Insulation 	<p>AIM: To upgrade the skills and knowledge of operatives on the installation and maintenance of oil storage tanks in the Domestic/Light Commercial sector.</p> <p>CONTENT:</p> <ul style="list-style-type: none"> Codes of Practice & Building Regulations Control of Pollution legislation Types of oil and their identification Steel & Thermoplastic oil storage tanks Constructional Standards Tank Fitting & Tank Supports Bundling & Delivery Considerations Oil Supply Systems & Pipe work installations Gauges & Overfill alarms systems Contamination problems & Maintenance
<p>Duration. 10 days. (2 Days per week for 5 Weeks <> Mon/Tue, or Wed/Thu or Fri/Sat).</p>			
<p>Under the New Boiler Passport Scheme for all New Oil Boilers it is now a requirement to be Qualified and OFTEC Registered to install and commission Oil Boilers.</p>			
<p>Under the SEI Home Energy Scheme it is now a recommendation and will soon be a requirement to be Qualified and OFTEC Registered to be a contractor for Oil Boiler Installation.</p>			
<p>CERTIFICATION : This Course is Certified by Blueflame Certification which allows the participant to obtain OFTEC registration as a Commissioning/Service Technician.</p>			

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OIL TANKER DRIVERS

Oil Tanker Drivers <> Training Course.

Introduction:

The Course is designed for Oil Tanker Drivers so that drivers are aware of most of the main Safety issues surrounding the delivery of Oil along with a practical Training Workshop on Burner Bleeding, Problem Detection and follow on recommendations.

The course will help Oil Tanker Drivers to understand;

- Health & Safety.
- Health Hazards <> Hygiene Precautions.
- Safety Aspects of Petroleum Products <> Protective Clothing.
- Environmental Aspects of Petroleum Products.
- Lone Workers & Safe Working Practice.
- Building Regulations.
- Control of Pollution Regulations.
- Agricultural Fuel Oil Regulations.
- Oil Filters.
- Fire Valves.
- Fuel Characteristics.
- Tank Types <> Tank Fittings <> Tank Supports & Bases <> Tank Cleaning.
- Tank Location & Bunding <> Internal Tanks <> Underground Tanks <> Tank Check.
- Oil Supply Systems.
- Delivery Site Safety.
- Fill Rate & Safe Working Capacity.
- Use of Ladders.
- Defect Reporting Procedures.
- Filling Into Drums.
- Fumes & Vapours.
- Access Hazards <> Lifting Hazards.
- Burner Bleeding.

Practical Training Workshop.

Introduction and Training on various items of equipment for drivers.

Duration: 1 Day.

Location: Unit 3-4 Mountrath Enterprise Park, Mountrath, Co Laois.

Course Times: 9.00am - 5.00pm.

Course Costs €250.

Each successful candidate will receive a Certificate of Attendance and Completion.



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Fetac Certified Training & Assessment <> Renewable Energy.

HEAT PUMP PROGRAMME.

Heat Pump <> Training Course.

Aim;

To upgrade the skills and knowledge of persons in the Renewable Energy Industry to SEI Certification Level.

To provide the required level of knowledge to persons entering the Renewable Energy Industry without Certification.

Objectives:

The programme will provide an extensive insight into Heat Pump Systems and will prepare candidates for end of programme examinations leading to recommendation to FETAC for certification and subsequent Registration with Sustainable Energy Ireland as a Qualified Installer.

Modules

- **Module 1** Introduction and Background to Heat Pump Technology.
- **Module 2** Site Assessment.
- **Module 3** Specifying the Heat Pump.
- **Module 4** Installing the Heat Pump.
- **Module 5** Hydronic Integration.
- **Module 6** Modes of Operation.
- **Module 7** Installation and Testing of Heat Pump Systems.
- **Module 8** Commissioning and Testing the Heat Pump.
- **Module 9** Maintenance.

Application.

Applications must be made on an Application Form which must be completed with all details before Training/Assessment can commence.

Applicants applying for Training/Assessment require qualifications/experience and will be required to provide information about those qualifications/experience as per Application Form.

Three recent photographs (Passport style size, in colour) must be submitted with the Application Form.

Charges for assessment are set by Metac Ltd and Renewable Energy Skills and will be included in the course fee.

Duration: 5 Days. (3 X 2 Days)

Location: Unit 3-4 Mountrath Enterprise Park, Mountrath, Co Laois.

Course Costs

This Training Programme is presented jointly by Metac Ltd and Renewable Energy Skills and is Grant Aided through Renewable Energy Skills. (All cheques to be made payable to Renewable Energy Skills)

Each successful candidate will receive a Certificate, acceptable to SEI for Installer Registration. The Fetac Course Certificate will be presented at a later date.



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BIOMASS ENERGY PROGRAMME.

Biomass Energy <> Training Course.

Aim;

To upgrade the skills and knowledge of persons in the Renewable Energy Industry to SEI Certification Level.

To provide the required level of knowledge to persons entering the Renewable Energy Industry without Certification.

Objectives:

The programme will provide an extensive insight into Biomass Energy Systems and will prepare candidates for end of programme examinations leading to recommendation to FETAC for certification and subsequent Registration with Sustainable Energy Ireland as a Qualified Installer.

Modules

- **Module 1** Introduction & Basic Information
- **Module 2** Characterisation of Wood Fuels & Fundamentals of Biomass Combustion.
- **Module 3** Biomass Combustion – Technology & Plant Components.
- **Module 4** Layout of Biomass Combustion Plants.
- **Module 5** Economic Analysis of Biomass Heat Generation Systems.
- **Module 6** Legislative Requirements.
- **Module 7** Literature.

Application.

Applications must be made on an Official Application Form which must be completed with all required details before Training/Assessment can commence.

Applicants applying for Training/Assessment require Qualifications/Experience and will be required to provide information about those Qualifications/Experience as per Application Form.

Three recent photographs (Passport style size, in colour) must be submitted with the Application Form.

Charges for assessment (included in the course fee) are set by Metac Ltd and Renewable Energy Skills.

Duration: 3 Days.

Location: Unit 3-4 Mountrath Enterprise Park, Mountrath, Co Laois.

Course Costs €450.

This Training Programme is presented jointly by Metac Ltd and Renewable Energy Skills and is Grant Aided through Renewable Energy Skills. (All cheques to be made payable to Renewable Energy Skills)

Each successful candidate will receive a Certificate, acceptable to SEI for Installer Registration. The Fetac Course Certificate will be presented at a later date.



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SOLAR ENERGY PROGRAMME.

Solar Energy <> Training Course.

Aim;

To upgrade the skills and knowledge of persons in the Renewable Energy Industry to SEI Certification Level.

To provide the required level of knowledge to persons entering the Renewable Energy Industry without Certification.

Objectives:

The programme will provide an extensive insight into Solar Water Heating Systems and will prepare candidates for end of programme examinations leading to recommendation to FETAC for certification and subsequent Registration with Sustainable Energy Ireland as a Qualified Installer.

Modules

- **Module 1** Introduction to Solar Water Heating.
- **Module 2** Solar Radiation.
- **Module 3** What is a Solar Water Heating System.
- **Module 4** Solar Collectors.
- **Module 5** Installation of Collectors.
- **Module 6** Hot Water Storage Cylinders.
- **Module 7** Controllers and Secondary Components.
- **Module 8** Preparing to Install a Solar Water Heating System.
- **Module 9** Installation of Systems.
- **Module 10** Commissioning and Inspection.
- **Module 11** Health & Safety.

Application.

Applications must be made on an Official Application Form which must be completed with all required details before Training/Assessment can commence.

Applicants applying for Training/Assessment require Qualifications/Experience and will be required to provide information about those Qualifications/Experience as per Application Form.

Three recent photographs (Passport style size, in colour) must be submitted with the Application Form.

Charges for assessment (included in the course fee) are set by Metac Ltd and Renewable Energy Skills.

Duration: 3 Days.

Location: Unit 3-4 Mountrath Enterprise Park, Mountrath, Co Laois.

Course Costs €450.

This Training Programme is presented jointly by Metac Ltd and Renewable Energy Skills and is Grant Aided through Renewable Energy Skills. (All cheques to be made payable to Renewable Energy Skills)

Each successful candidate will receive a Certificate, acceptable to SEI for Installer Registration. The Fetac Course Certificate will be presented at a later date.

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PRACTICAL SOLAR ENERGY PROGRAMME

Practical Solar <> Training Course.

Aim;

To provide the practical skills and knowledge and or to upgrade the Practical Skills and Knowledge of Solar Panel Installers in the Renewable Energy Industry

Objectives:

The programme will provide an extensive insight into the “Hands-On” Practical Installation of Solar Panels and will prepare participants to **Correctly and Safely Install Solar Panels.**

Modules

- **Module 1** Health & Safety.
- **Module 2** Solar Facts/Analysis.
- **Module 3** Cylinder Configurations. (Solarsyphon & Dual Coil.
- **Module 4** Controller Arrangements.
- **Module 5** Commissioning Controller.
- **Module 6** Flat Plates v Vacuum Tubes.
- **Module 7** Practical <> Roof Fixing Flat Plate Panel.
- **Module 8** Practical <> Roof Fixing Vacuum Plate Panel.
- **Module 9** Solar Simulation.
- **Module 10** Solar Survey Forms.
- **Module 11** Solar Facts/Analysis.
- **Module 12** Disassemble Panel.
- **Module 13** Repair Roof Entries.
- **Module 14** In Roof – Filling/Flashing
- **Module 15** SEI Grant Requirements.

Application.

Applications must be made on an Official Application Form which must be completed with all required details before Training/Assessment can commence.

Each participant must have completed a Fetac approved Solar Training Course Part 1.

Duration: 2 Days

Location: Unit 3-4 Mountrath Enterprise Park, Mountrath, Co Laois.

Course Times:

Course Costs: €300

This Training Programme is presented jointly by Metac Ltd and Renewable Energy Skills and is Grant Aided through Renewable Energy Skills. (All cheques to be made payable to Renewable Energy Skills)

Each successful candidate will receive a Certificate of Attendance and Completion.

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UNVENTED CYLINDER COURSE.

Unvented Hot Water Cylinder <> Training Course.

Aims;

The aim of this course is to train candidates in the Installation and Safety Requirements of Unvented Hot Water systems. The candidate will have an understanding of Building Regulation Part G

Objectives;

The programme will provide an extensive insight into Unvented Hot Water Cylinders and will prepare candidates for end of programme examinations leading to recommendation to Blue flame for certification.

Upon completion of the course the candidate will be able to:

- Recognise the various forms of hot water supplies
- State the functional requirements of Unvented Domestic Hot Water systems.
- Design an Unvented system to comply with Part G of the Building Regulations.
- Carry out commissioning of an Unvented System State and rectify common causes of faults in an Unvented System.

Modules;

Module 1	Introduction & Health & Safety.
Module 2	Domestic Hot Water Supply <> Options <> Tanks <> Boilers <> Heaters.
Module 3	Legal Requirements <> Controls <> Valves <> System Layout.
Module 4	Cylinder Schematics <> Construction & Materials.
Module 5	Installation <> Pressure & Flow <> Discharge
Module 6	System Faults <> Commissioning <> Maintenance.
Module 7	Practical Workshop. Practical Training Workshop on Product Identification <> Product Types <> Product Maintenance <> System Applications.

TRAINEE PROFILE: Persons involved in Heating Systems Installation.

Application;

Applications must be made on an Official Application Form which must be completed with all required details before Training/Assessment can commence.

Three recent photographs (Passport style size, in colour) must be submitted with the Application Form.

(Charges for assessment are included in the course fee).

Duration	2 Days
Location	Metac Ltd.
Course Costs	€350. (Contact Metac for Updates on Special Prices).

CERTIFICATION: This is a Certified Course certified by Logic Certification. (UK)

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WATER REGULATIONS

Water Regulations <> Training Programme.

Aim;

This Programme is designed for Plumbers and associated trades who are involved with the installation, design or specification of water systems or with buildings containing water systems.

Objectives:

The programme will provide an extensive insight into Water Regulations and will prepare candidates for end of programme examinations leading to recommendation to Blue Flame for certification and subsequent Registration with Sustainable Energy Ireland as a Qualified Installer

The course will help Participants understand:

- The contents of the Water Supply (Water Fittings) regulations 1999
- What the regulations mean and recognise the role of the regulations in preventing waste, misuse, undue consumption, contamination and erroneous measurement of water.
- How to comply with the regulations in practice.
- How to carry out risk assessments on existing water systems and advise if they meet the Water Regulations.

Application.

Applications must be made on an Official Application Form which must be completed with all required details before Training/Assessment can commence.

Applicants applying for Training/Assessment require Qualifications/Experience and will be required to provide information about those Qualifications/Experience as per Application Form.

Three recent photographs (Passport style size, in colour) must be submitted with the Application Form.

Charges for assessment (included in the course fee) are set by Metac Ltd and Renewable Energy Skills.

Duration: 2 Days

Location: Unit 3-4 Mountrath Enterprise Park, Mountrath, Co Laois.

Course Costs €TBA

Each successful candidate will receive a Certificate of Attendance and Completion.



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(BER) BUILDING ENERGY RATING COURSE

(BER) Building Energy Rating <> Training Course.

Aim;

To provide participants with the skills and knowledge to successfully carry out Energy Rating of New Dwellings and to acquire SEI Certification.

Objectives:

The programme will provide an extensive insight into **(BER) Building Energy Rating** and will prepare candidates for end of programme examinations leading to recommendation to for certification and subsequent Registration with Sustainable Energy Ireland as a Qualified BER Assessor.

Requirements

- **Level 6 FETAC Certification in Building Related Trade.**
- **Building Construction Level 3 Course or Equivalent.**

(SEI) As a pre-qualification for entry on the proposed dedicated BER courses, successful applicants for the BER Assessor Training Programme for new dwellings should have an appropriate construction related qualification, at least at National Certificate Level 6 Advanced Certificate/Higher Certificate in construction studies or other cognate discipline or equivalent.

Module 1	Introduction.
Module 2	Basic Fundamentals of BER & Overview of Methodology.
Module 3	Course Requirements <> Computer & Systems.
Module 4	DEAP Software.
Module 5	HARP Database.
Module 6	Unit 1 Building Energy Rating (BER) in Ireland. Unit 2 Building Construction and Lighting Assessment. Unit 3 Building Energy Performance <> Fabric & Ventilation Systems. Unit 4 Space/Domestic Hot Water Heating Systems and Controls. Unit 5 Overall Energy Performance <> CO2 Emissions and BER Labels. Unit 6 Advisory Reports for Dwellings.
Module 7	Improvement Measures.
Module 8	Dwelling Survey Assignment.
Module 9	SEI & Documentation.
Module 10	Completion of end of Course Theory & Practical Assessments.

Duration: 6 Days

Location: Unit 3-4 Mountrath Enterprise Park, Mountrath, Co Laois.

Course Times: 9.15 – 16.30

Course Costs: €1,500

Each successful candidate will receive a certificate, acceptable to SEI for Installer Registration.
The Fetac Course Certificate will be presented at a later date.



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AIR PRESSURE TESTING.

Air Pressure Testing <> Training Course.

Aims;

The aim of this course is to provide participants with the Skills and related Knowledge to enable them to use Air Pressure Testing.

(From 1st July 2008 all new single dwellings will require an Air Pressure Test).

Objectives:

The programme will provide an extensive insight into Air Pressure Testing and will prepare candidates for end of programme examinations leading to recommendation to for certification and subsequent Registration with Sustainable Energy Ireland as Qualified in Air Pressure Testing.

The course will help participants to understand;

- **Air Pressure Tests used to improve energy efficiency of existing buildings.**
- **Air Leakage Testing helps identify areas of a building experiencing heat loss.**
- **Air Leakage Tests help minimize energy usage in a house.**
- **Air Leakage Testing plays a vital role in building an A-Rated house.**

Modules

- **Module 1** Introduction.
- **Module 2** Health & Safety
- **Module 3** Understanding Air Pressure Testing.
- **Module 4** Regulation & Legislation.
- **Module 5** Air Pressure Standards.
- **Module 7** Requirements for Testing.
- **Module 8** Air Pressure Test Equipment
- **Module 9** Carrying out the Test.
- **Module 10** Test Reports.
- **Module 11** Practical Training Workshop on relevant Equipment & System Applications.
- **Module 12** Assessment.

Duration: 2 Days.

Location: Unit 3-4 Mountrath Enterprise Park, Mountrath, Co Laois.

Course Costs €TBA

Each successful candidate will receive a Certificate of Attendance and Completion.

Unit 3 & 4, Mountrath Enterprise Park
Portlaoise Road, Mountrath
Co. Laois, Ireland.

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FLUE GAS ANALYSERS.

Flue Gas Analysers <> Training Course.

Introduction.

This Programme is designed for Oil, Gas, and Renewable Energy Specialists so that they gain a Comprehensive Understanding and Practical Knowledge of Flue Gas Analysers along with their Application and Benefits and all Safety and other issues associated with their use.

The Programme will assist Oil and Gas Service Specialists to understand the following;

- Flue Gas Analysis.
- Pressure Tests.
- Let By Tests.
- Tightness Tests.
- Temperature Tests.
- Room CO Safety Tests.
- Gas Escape Tests.
- Operation and Maintenance.
- Calibration.

Practical Training Workshop.

Introduction and Training on carrying out various tests on various Oil and Gas boilers and other Installations using an Analyser.

- Emission Tests.
- Co2.
- O2.
- Efficiency.

Duration: 1 Day.

Location: Unit 3-4 Mountrath Enterprise Park, Mountrath, Co Laois.

Course Times 9.15am – 4.30pm

Course Cost €250

Each successful candidate will receive a Certificate of Attendance and Completion.



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ENERGY TRAINING PROGRAMME

Technical Sales Persons (Hardware).

Energy Technical Sales (Hardware) <> Training Course.

Aim;

To provide an extensive insight into and upgrade the skills and knowledge of Technical Sales Persons in Hardware Retail on Legislation, Product Knowledge, Supplies, Installations and Standards Techniques required in the Technical Sales Persons Customer Advisory and Sales position..

To provide the Technical Sales Persons with updated information to understand the whole area of Energy and Energy Equipment Supplies and Installations along with their Applications and Implications.

Objectives:

To understand the integration of renewable Energy Systems into General Heating Systems and the effects of influencers <> e.g. Position, Combination & Effectiveness.

To provide participants with Onsite Demonstrations, Training and Information of the various products of the Heating and Energy Industry.

Modules

- **Module 1** **Legislation & Standards.**
- **Module 2** **Environmental Issues.**
- **Module 3** **Product Knowledge.**
- **Module 4** **Boilers <> Gas & Oil.**
- **Module 5** **Boilers <> Condensing Boilers.**
- **Module 6** **Renewable Energy <> Solar <> Biomass <> Geothermal/Heat Pumps.**
- **Module 7** **Unvented Cylinders.**
- **Module 8** **Active Systems. <> (Wind/Wave/Tide/Fuel Cells).**
- **Module 9** **Up-Grading Systems ("New for Old")**
- **Module 10** **Heating Controls.**
- **Module 11** **New Technology.**
- **Module 12** **CHP – Micro Generation.**
- **Module 13** **Identifying Opportunities.**
- **Module 14** **Practical Training Workshop.**
Practical Training Workshop on Equipment Identification, Parts Identification and Applications of Energy Systems.
Practical Training on all the various types of equipment.

Completion of Course Theory Assessments.

TRAINEE PROFILE: Persons involved in Advising and or Selling Energy Equipment and Systems.

Course Duration: **2 Days**

Course Location: **Unit 3-4 Mountrath Enterprise Park, Mountrath, Co Laois.**

Course Cost **€450**

Each successful candidate will receive a Course Attendance/Completion Certificate.



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Training & Assessment <> Renewable Energy.

HEAT RECOVERY VENTILATION SYSTEMS

Aims;

To upgrade the skills, and knowledge of persons in the Energy Industry to a Certified Level of competence in the Heat Recovery Ventilation of domestic dwellings.

To Learn and Understand the concepts and provide the required level of knowledge of Heat Recovery Ventilation to persons entering the Energy Industry with or without prior Training.

Objectives:

The programme will provide an extensive insight into Heat Recovery Ventilation Systems of domestic dwellings and will prepare participants for end of programme examinations leading to recommendation to certification and subsequent Registration as Heat Recovery Ventilation installers.

Modules DAY 1

- **Module 1** Introduction to Heat Recovery Ventilation.
- **Module 2** Building Regulations <> Heat Recovery Ventilation and its effect on HRV.
- **Module 3** Health & Safety.
- **Module 4** Types of Heat Recovery Ventilation Systems.
- **Module 5** Electrical Controllers and Secondary Components.
- **Module 6** Planning to Install Heat Recovery Ventilation Systems
- **Module 7** Calculations.
- **Module 8** Installations.

DAY 2

- **Module 9** Commissioning, Inspection and Maintenance.
- **Module 10** Practical Workshop & Demonstrations.
- **Module 11** Question and answers session
- **Module 12** Oral and Practical Assessments.

Applications must be made on an Official Application Form which must be completed with all required details before Training/Assessment can commence.

Two recent photographs (Passport style size, in colour) must be submitted with the Application Form.

Charges for assessment (included in the course fee) are set by Metac Ltd and Renewable Energy Skills Coffee and Lunch shall also be provided

Duration: 2 Days.

Location: Unit 3-4 Mountrath Enterprise Park, Mountrath, Co Laois.

Course Costs €450.

This Training Programme is presented jointly by Metac Ltd and Renewable Energy Skills and is Grant Aided through Renewable Energy Skills.

(All cheques to be made payable to Renewable Energy Skills)

Each successful participant will receive a Certificate of Attendance and Completion.

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INSULATION COURSE.

Building Insulation <> Training Course.

Aim:

The aim of this course is to provide participants with the Skills and related Knowledge to enable them to Install Insulation to manufacturer's specifications and to comply with current regulations and codes of practice and to achieve certification.

Objectives:

The programme will provide an extensive insight into Insulation, Insulation Products, Installation, and Maintenance and will prepare candidates for end of programme Theory and Practical Assessments.

CONTENT:

- **Module 1** Introduction to Insulation.
 - **Module 2** Conservation of Energy and the Building Regulations.
 - **Module 3** The Building Fabric and Assessment.
 - **Module 4** U-Values.
 - **Module 5** Materials and Uses.
 - **Module 6**
 - Unit 1** Prepare Equipment & Tools for installation.
 - Unit 2** Prepare Materials and Work Area for Installation.
 - Unit 3** Installation of Specific Thermal Insulation.
 - Unit 4** Post Installation Operations.
 - Unit 5** Safety, Efficiency and Effectiveness.
 - **Module 7** Installing External Insulation.
 - **Module 8** New Houses and Insulation.
 - **Module 9** Older Houses and Insulation.
 - **Module 10** Condensation and Ventilation.
 - **Module 11** Draught Sealing and Air-Tightness.
 - **Module 12** Health and Safety & PPE.
 - **Module 13** Documentation.
 - **Module 14** Practical Workshop.
- Practical Training Workshops on Product Identification <> Product Types <> Product Maintenance <> System Applications <> Equipment.

TRAINEE PROFILE: Persons involved in Insulation and or Construction.

LOCATION: Metac Ltd.

DURATION: 3 days.

COURSE FEE: €450

CERTIFICATION: This is a FETAC Level 5 Certified Course.



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HEATING CONTROLS COURSE.

Aim:

The aim of this course is to provide participants with a precise knowledge of how to implement Heating Controls and other Energy Saving measures in Domestic Heating Systems.

To provide the participant with the Skills and related Knowledge to enable them to Install Heating Controls to manufacturer's specifications, to comply with Part L of the building regulations 2007 and codes of practice.

It also aims to give participants the fundamental understanding of the principles behind Heating System Efficiencies.

Objectives:

The programme will provide an extensive insight into Heating Controls, Installation, Maintenance and to provide information on the Benefits from Reduction in heating bills Reduction in Greenhouse Gas Emissions and Increased Comfort Levels

CONTENT:

- **Module 1** Introduction to Heating Controls.
- **Module 2** Electrical Safety Requirements.
- **Module 3** The Statutory Regulations for Domestic Heating Systems.
- **Module 4** Types of Heating Systems.
- **Module 5** Suitability of Existing Domestic Systems for New Controls.
- **Module 6** Heating System Controls. (Valves/Thermostats)
- **Module 7** Heating System Design.
- **Module 8** Electrical Fundamentals , Voltage, Current Resistance, Power.
- **Module 9** Space Heating and Domestic Hot Water Zone Control
- **Module 10** Time & Temperature control of electric immersion heaters
- **Module 11** Zoning
- **Module 12** Boiler Management System
- **Module 13** Product Standards - Wireless Controls
- **Module 14** Installation Standards
- **Module 15** Calculate Benefits and Possible Savings.
- **Module 16** SEI - HES Scheme - Code of Conduct.
- **Module 17** Practical Workshop.
- **Module 18** Practical Training Workshops on Product Identification <> Product Types <> Product Maintenance <> System Applications <> Appropriate Tools & Instruments.

TRAINEE PROFILE: Plumbers, Electricians and Other Persons in Construction.

LOCATION: Metac Ltd.

DURATION: TBA.

COURSE FEE: €TBA

Each successful candidate will receive a Certificate of Attendance and Completion.



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ENERGY HARNESS COURSE.

(FGHRS) Flue Gas Heat Recovery Systems (Energy Harness) <-> Training Course.

Aim:

The aim of this course is to provide qualified participants with the Skills and Knowledge relating to Safety Regulations, Procedures and Standards to enable participants to Install (FGHRS) Flue Gas Heat Recovery Systems (Energy Harness) to manufacturer's specifications and to comply with current regulations and codes of practice.

The course will prepare candidates for end of programme Theory and Practical Assessments.

Objectives:

On completion of this course the participant will have acquired an extensive insight into (FGHRS) Flue Gas Heat Recovery Systems (Energy Harness) and have acquired the Skills and Knowledge to safely carry out Energy Harness Installations.

CONTENT:

- **Module 1** Introduction.
- **Module 2** Understanding (FGHRS) Flue Gas Heat Recovery Systems (Energy Harness).
- **Module 3** Health & Safety Regulations.
- **Module 4** Building Regulations.
- **Module 5** Design & Operating Sequence.
- **Module 6** Technical Data.
- **Module 7** General Requirements.
- **Module 8** Installation.
- **Module 9** Flue System.
- **Module 10** Commissioning.
- **Module 11** Servicing
- **Module 12** Parts/Maintenance.
- **Module 13** Fault Finding.
- **Module 14** Electrical Controls.
- **Module 15** Practical Workshop.
Practical Training Workshops on Products & Equipment, Product Identification & Product Types.

TRAINEE PROFILE: RGI & FETAC Solar Qualified Persons involved in Installations

LOCATION: Metac Ltd.

DURATION: 2 Days.

COURSE FEE: €TBA

Each successful candidate will receive a Certificate of Attendance and Completion.



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C.H.P. <> COMBINED HEAT & POWER

Combined Heat & Power <> Training Course.

Aim:

The aim of this course is to provide qualified participants with the Skills and Knowledge relating to Safety Regulations, Procedures and Standards to enable participants to Install C.H.P., (Combined Heat & Power) Systems to manufacturer's specifications and to comply with current Regulations and codes of practice.

The course will prepare candidates for end of programme Theory and Practical Assessments.

Objectives:

On completion of this course the participant will have acquired an extensive insight into C.H.P., (Combined Heat & Power) Systems and have acquired the Skills and Knowledge to safely carry out C.H.P., Installations.

CONTENT:

- **Module 1** Introduction.
- **Module 2** Understanding CHP (Combined Heat & Power Systems).
- **Module 3** Health & Safety Regulations.
- **Module 4** Building Regulations.
- **Module 5** Design & Operating Sequence.
- **Module 6** Technical Data.
- **Module 7** General Requirements.
- **Module 8** Installation.
- **Module 9** Flue System.
- **Module 10** Commissioning.
- **Module 11** Servicing
- **Module 12** Parts/Maintenance.
- **Module 13** Fault Finding.
- **Module 14** Electrical Controls.
- **Module 15** Practical Workshop.
Practical Training Workshops on Products & Equipment, Product Identification & Product Types.

TRAINEE PROFILE: RGI Qualified Persons involved in Installations

LOCATION: Metac Ltd.

DURATION: 2 Days.

COURSE FEE: €TBA

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OCCUPATIONAL FIRST AID.

Introduction:

Under current Irish Law, Employers have a duty to provide first aid equipment at all places of work where working conditions require it.

Depending on the size and/or specific hazards of the undertaking or establishment, trained Occupational First Aiders must also be provided. Information must be provided to employees and/or safety representatives as regards first aid facilities and arrangements in place.

Course Validation

The course is structured in accordance with the HAS's Guidelines on First Aid at Places of Work.

The Occupational First Aid Course is Limited to 12 participants and the course is valid for three years, before which it is advisable to undertake a one day refresher course prior to expiry.

Course Benefits

The course once completed allows compliance with safety regulations, effective safety statement, reduced absenteeism, increased protection to employees, visitors, suppliers, etc., possible insurance benefits, and increased morale to trained staff.

Who should attend:-

- Supervisors or Team Leaders.
- Staff on shift work to give the organisation 24 hr First Aid Cover. (It is recommended that 3 people, as there must be one certified first aider present at the work place during Business hours).
- Employees who have previously completed Occupational First Aid Course should complete a Refresher course (1-day) within the life time of their current certificate.
- Persons who wish to become first aiders within their workplace.

Course Tutors

The Trainer is a registered first aid practitioner with the National Ambulance School in Dublin.

The Trainer has worked as an EMT (Emergency Medical Technician) within the Ambulance Services.

Course Programme

- Assessment, Accident Scene Management.
- Circulation, Wounds Bleeding.
- Respiration and Asphyxia.
- CPR (Cardiopulmonary Resuscitation).
- Unconsciousness.
- Fractures, sprains, strains and dislocations.
- Burns, scalds, Chemicals/Poisons, Electrical Shock.
- Medical Emergencies, Crush and Spinal Injuries.

Participants are evaluated on the final day.

Duration: 3 days.

Location: Unit 3-4 Mountrath Enterprise Park, Mountrath, Co Laois.

Course Times: 9.00am - 4.30pm Daily.

Course Costs €500 per person.

On successful completion a 3 year valid Occupational First Aider Certificate will be issued.

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SERVICES.

Course participants in Metac Ltd can avail of the following services at reduced prices;

PARTS & EQUIPMENT.



Heat Services Ltd.

Course Participants can avail of Discounted Prices on various Parts and Equipment from Heat Services Ltd a (Preferred Supplier) at Unit 2 Mountrath Enterprise Park, Mountrath.

Phone 057 8756504

INSURANCE.



Discounted Insurance Policies from Kenrick Insurances Ltd, Lismard Court, Portlaoise a Preferred Insurance Supplier to Course Participants in Metac Ltd as follows;

Cover to Bord Gais Standards.

Public Liability Insurance.

Commercial Vehicle Insurance.

Phone Marie Scully on 057 8621128.

Employers Liability Insurance.

Cover for Tools in Vans.

FINANCE.



Course Participants in Metac Ltd can now contact Paul O'Connell in AIB, Portlaoise, Finance & Leasing Dept for Information on Special Finance for Insurance, Vans, Equipment, Tools, etc, etc.

Prompt Pay Scheme for Multiple Course participation.

Contact Paul @ 086 6086691

EQUIPMENT.

Course Participants can avail of Discounted Prices on various Equipment from CSL Ltd, Deerpark, Carlow.



Multi-function flue gas analyser

Used by British Gas (7,000 units), Bord Gais and FÁS.

All versions are compliant with part L1 building regulation, EN50379, IGE/UP/1B, benchmark commissioning checklist, BS7967 and BS7927.

CSL is the sales, service and calibration centre for the Sprint in Ireland.

Contact Charlie O'Neill on 086 0455812 or 059 9143464.

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SERVICES.

Course participants in Metac Ltd can avail of the following services at reduced prices;

ACCOMMODATION.



Course Participants can avail of accommodation at reduced rates as follows;

Maldron Hotel, Portlaoise @ 057 8695900.

The Killeshin Hotel, Portlaoise @ 057 8631200

or local Bed & Breakfast Accommodation.

MOTORING.



K & M MOTORS LTD.

Course Participants can avail of Discounted Prices on Car & Van Servicing,
Tyres & Batteries from K & M Motors Ltd a Preferred Supplier

(While on your course) next door to Metac at Unit 1 Mountrath Enterprise
Park, Mountrath.

Phone Ken Cahill on 087 2411596 or 057 8732041

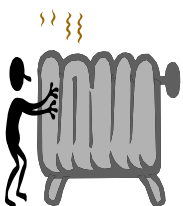


METAC WINS TOP AWARD

METAC Ltd in it's first year in operation won the 2007 OFTEC Regional award for the
Training of Oil Service Technicians.

METAC Ltd won a Silver Award in the 2009 International Category in the OFTEC Training
Centre of the Year Awards in City West Hotel, Dublin.

Recently METAC Managing Director and Founder Dominic Dunne received Key Laois
Person of the year award for 2009 from Laois Chamber of Commerce.



**THE PRESENT TIME IS THE
TIME TO TRAIN FOR THE
FUTURE**



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Metac Ltd would like to express thanks to Laois Leader for their assistance to the centre.

Metac Ltd would like to express thanks to the following suppliers of equipment;

Calor Gas.

Mark Eire Ltd.

Firebird Boilers Ltd.

Grant Engineering Ltd.

Bord Gais

Systemlink Ltd.

Heatmerchants Ltd.

RVR Ltd.

Worcester Bosch Group.

Heat Line Ltd.

Powrmatic Ltd.

Dimpco Ltd.

ASD/Indesit

Vaillant Boilers Ltd.

Electrolux Ltd.

Euro Gas Ltd

Solar Vision Ltd.

Thermo Air Ltd.

Ariston Ltd

Heat Services Ltd.

Igneus Ltd

C & F Quadrant Ltd.

Harlequin Oil Tanks Ltd.

Telfords Ltd.

Potterton Myson Ltd.

Modern Plant Ltd.

J P Distributors Ltd.

Horstmann Controls Ltd.

Teddington Controls Ltd.

Kloben SAS

Green Planet Ltd.

CSL Engineers Ltd.

Southern Gas Supplies Ltd.

Riello Burners Ltd.

Grundfos Ltd.

Sean Murphy Ltd.

Master Heat Ltd

Quality Plastics Ltd.

Allied Solar Ltd.

SIGA Cover AG

Precision Heating Ltd. (Viessmann & Turbo)

Renewable Energy Systems Ltd.

Christiani Wasserlech NG GMBH.

John Murphy

I H B M A

Hanley Controls Ltd.

Ecologics Solar Solutions Ltd.

Baxi Boilers

Heating Distributors Ltd.

Rinnai Boilers

MI Flues Ltd

Hamilton Gas Products Ltd.

Radiant Boilers Ltd.

Vokera Boilers Ltd

Intergas Ltd.

East Coast Gas Ltd.

Long Mile Road, Dublin 12.

Macroom, Co Cork

Ballymakeera, Co Cork.

Crinkle, Birr, Co Offaly.

Finglas, Dublin 11.

Tallaght, Dublin 24.

Athlone, Co Westmeath & Countrywide.

Kenmare, Co Kerry.

Worcester, UK.

Bedford, UK.

Tallaght, Dublin 24.

Cloghran, Co Dublin.

Ballycoolin, Dublin 11.

Derbyshire, UK.

Long Mile Road, Dublin 12.

Bray, Co Wicklow.

Mountrath, Co Laois.

Athy Road, Carlow.

Buckinghamshire, UK.

Mountrath, Co Laois.

Enniscorthy, Co Wexford.

Ballyfermot, Dublin 10.

Moira, Co Armagh.

Portlaoise, Co Laois.

Tallaght, Dublin 24.

Naas Road, Dublin 12.

Tallaght, Dublin 24.

Bristol, UK.

Cornwall, UK.

Veronese, Italy.

Mount Brown, Dublin 8.

Dublin Road, Carlow.

Clonmel, Co Tipperary.

Cambridgeshire, UK.

Ballymount Road, Dublin 12.

Kinvara, Co Galway.

Celbridge, Co Kildare.

Whites Cross, Cork.

Coolock, Dublin 17.

Schweiz, Switzerland.

Ballycoolin, Dublin 15.

Baltinglass, Co Wicklow.

Germany.

Castlereagh, Co Roscommon.

Dundrum, Dublin 14

Clonmel Co Tipperary.

Killeen Road, Dublin 10.

Warwick, UK.

Finglas, Dublin 11.

Runcorn, UK.

Summerhill Co Meath.

Bangor, Co Down.

Fareham, UK.

Callan, Co Kilkenny.

Ballymore Eustace, Co Kildare.

Rathdrum, Co Wicklow.

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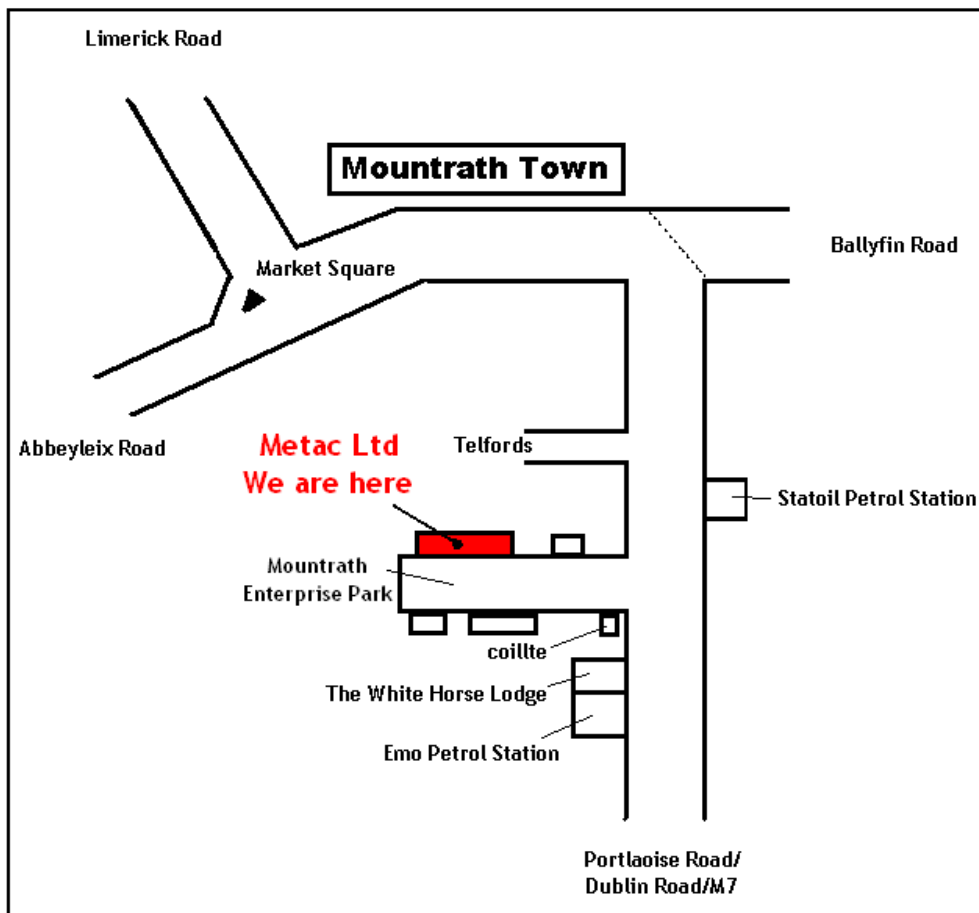
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LOCATION IN MOUNTRATH, CO LAOIS.



If you require directions please call Metac at 057 8756540.