



# ERM

Explosive Risk Management Ltd

## PORTFOLIO OF SPECIALIST TRAINING COURSES



[www.explosiveriskmanagement.com](http://www.explosiveriskmanagement.com)



# About Us

Explosive Risk Management is a leading company in the provision of training design and delivery across multiple disciplines within the defence and security sector. The company has globally recognized expertise in consultancy and the design and delivery of training to meet exact requirements. This is further recognized by the company being accredited with ISO 9001:2008 demonstrating that the company applies quality standards for both consultancy and training design and delivery. The company management team is drawn from backgrounds in defence and law enforcement and as a result is able to provide capability across multiple disciplines in defence and security. ERM also has mature partnerships that also allow niche skill sets in Special Forces and Intelligence disciplines to be trained either as stand alone or fusion courses.

ERM's team of personnel are used to working within a multi-national environment and understand both the nuances and value of different approaches and outlooks. Collectively to date, ERM's team of specialist consultants and trainers have worked with personnel from over 50 different nations. This allows ERM to manage or team on multi-discipline, specialist or large trans-national projects within our core area with a goal to increase capability and resilience.

The company is driven by the following vision:

## Vision

*"To utilise extensive subject matter expertise and experience to provide the highest quality consultancy and training solutions available to meet the needs of our clients and mitigate where possible modern and developing Hybrid Threats"*



Engaging ERM as a training provider ensures that you as a valued client get value for money and true expertise gained from homeland security and deployed operations. Our courses are all vetted for content by the UK Ministry of Defence where applicable ensuring that the client gets up to date, relevant and progressive training.

ERM is passionate about standards of training and consultancy and as a result is one of the founding company members of EU ExERT, (a European body dedicated to the standardisation of all explosives related disciplines across Europe with a focus on the application and transparency of National Occupation Standards). ERM is additionally a company member of the following organisations:

- ADS (Aerospace/Defence/Security)
- The Security Industry Technology Consortium (SITC)
- United Kingdom Trade and Investment Defence and Security (UKTI DSO)
- The UK Carbon Smart Scheme

The company is also a registered supplier for the United Nations and NATO (UNOPS and UNDP Supplier Number 246303 and NSPA CAGE code XE02) and is ISO 9001:2008 accredited.

# Training Courses

***Training is delivered by operationally current instructors who fuse instruction with extensive experience to create a fully immersive training experience.***

Courses can be modular and progressive as part of a capability development program, or stand alone to increase capability in specific disciplines. Training can be delivered at our discreet facilities in the UK or at a location of our client's choosing by our globally-deployable Mobile Training Team (MTT).



## The Company

Explosive Risk Management Ltd was formed in January 2009 as a specialist company providing innovative consultancy, products and training solutions for the defence, security and commercial sectors. Placing our clients first is embedded in the Explosive Risk Management culture. By investing in our people and resources, we bring new ideas, provide subject matter expertise and design and deliver bespoke training solutions to assist our clients mitigate modern and developing Hybrid Threats.

## Training

Our training solutions and courses have been identified by our clients as being at the highest end of the spectrum in terms of instructor experience and training quality. All of our instructors are operationally current, highly motivated and world respected, with extensive operational experience across many specialist disciplines. Our courses are designed for a global market and always tailored to meet the exact needs of the client at no additional cost.



# IEDD COURSES

**Specialist Improvised Explosive Device Disposal (IEDD) courses in multiple disciplines to increase resilience for clients through structured and progressive training based on extensive operational IEDD experience in Northern Ireland, Bosnia, Kosovo, Iraq and Afghanistan.**

## COURSES

### **IEDD Operators Course – 4 Weeks (16 Students Maximum)**

An intensive course designed to allow students with little or no knowledge of IED Disposal and render safe procedures, to reach the NATO standard in IEDD. The course takes the student through all areas and subjects relating to IEDD with additional subjects covered in specialist areas such as HME and advanced forensics. The course is progressive in nature and covers the following modules:

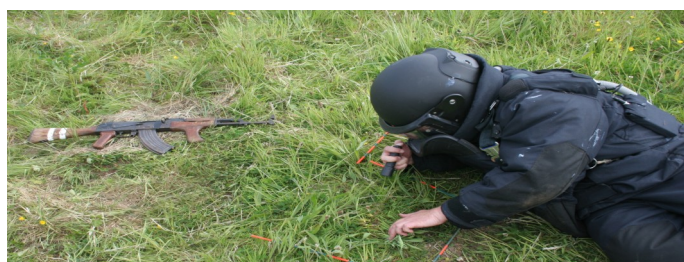
**IEDD Philosophy and Principles, Cordon and Evacuation Procedures, Assessment of Secondary Hazards, Other Agency Support to Tasks, Radiography, Hook and Line, Manual Search Procedures, Hostage / 'Category A' Procedures, Questioning Technique, Threat Assessment, Remote, Semi Remote and Manual Actions, IED Forensics, Introduction to EOD ECM and an Introduction to Pre-emptive Security Operations to protect High Value Targets.**

Each course is tailored specifically to a client requirement and threat, ensuring that training is fully relevant to the requirement. This course is aimed at an audience consisting of military, law enforcement or security personnel with a requirement to conduct IEDD Operations.

### **High Threat IEDD Operators Course- 6 Weeks (16 Students Maximum)**

A course designed for currently qualified IEDD Operators that can be delivered as a stand-alone course or as a follow on course from the IEDD Operators Course. The course is very intensive in nature and requires students to have either an existing capability, or previous experience in IEDD Operations. Courses can be delivered to clients with a specific requirement such as deployment to a High Threat theatre of operations or a country specific threat and terrorist group. This unique course focuses on developing the skills and capability required to deal with complex or multiple devices and threats from professional terrorist organizations that have the intent and ability to target IEDD Operators and security force personnel.

*Each course can be delivered by ERM's Mobile Training Team in a client's home country, or in the UK at our specialist training facility. ERM courses can all be delivered through interpreters if required, or a language module added to each course in technical English for residential courses in the UK. If delivered through interpreters, the length of each course will increase. Please contact ERM for more information.*



The aim of these courses is to train military, law enforcement or security personnel to conduct IED clearance operations with a very high level of competence in a semi-permissive or fully non-permissive environment.

All ERM IEDD Courses follow UK systems approach to training methods and are delivered by highly experienced former British Army Instructors. This ensures that ERM courses meet the high standards required to successfully conduct IEDD at all levels of threat and capability.

*ERM also provides full equipment solutions to clients requiring joint equipment and training solutions.*

**Please contact ERM for course details and pricing.**

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# SPECIAL FORCES IEDD COURSES

Specialist courses for IEDD Operators supporting Special Forces and Special Forces personnel using undertaking IEDD, using IEDD and search equipment without IEDD and Search support. Training is based on extensive operational Special Forces and SWAT experience on homeland security operations and operational deployments to Iraq and Afghanistan.



## COURSES

### **Special Forces IEDD Operators Course – Length Various (dependant on client)**

A course designed for Special Forces personnel or SWAT teams with a requirement to disable devices encountered during dynamic assault operations. The course covers all the Tactics Techniques and Procedures (TTPs) required for assault IEDD and the successful execution of these specialist tasks. IEDs encountered during Assault IED tasks may be varied and initiated by Time, Command or Victim Operated switches. The course will cover: IED operator and assault team integration, assault IED equipment, specialist ECM use, covert search and fast moving and dynamic render safe procedures in realistic scenario based exercises.

### **Specialist Equipment and Threat Training for Special Forces Personnel - Length Various**

A number of stand alone or integrated courses to teach Special Forces or SWAT personnel the use and application of specialist equipment used in IEDD and Search. These courses have been developed as not every Special Forces or SWAT unit will have a requirement to train their personnel in specialist IEDD or Search disciplines but may have a requirement to conduct search and clearance operations on target to confirm the presence or absence of an IED. The course will cover: Specialist equipment for search relative to the threat faced, mark and avoid procedures for IEDs, IEDs by type and effect including complex and multi-switch IEDs and the use of follow up agencies.

*Each course can be delivered by ERM's Mobile Training Team in a client's home country, or in the UK at our specialist training facility.*



The aim of these courses is to train IEDD Operators to integrate into Special Forces or SWAT units to provide intimate support during dynamic operations or to train Special Forces or SWAT personnel that could face an IED or multiple IEDs during a tactical assault operation or on approach to the target in a fully non-permissive environment.

All of the above courses are taught exclusively by High Threat IEDD and Search Personnel that have considerable experience of working intimately with UK and NATO Special Forces.

*ERM also provides full equipment solutions to clients requiring joint equipment and training solutions.*

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# IEDD THREAT ASSESSMENT COURSE

**A course designed specifically for personnel qualified as IEDD operators conducting IEDD duties in non-permissive theatres of operations, or to prepare personnel for intensive High Threat IEDD training.**



## COURSE

### **2 Week IED Threat Assessment (12 Students Maximum)**

This 2 week course was initially designed to a specific client requirement and now offered as part of the portfolio of ERM courses. The course is designed for qualified IEDD Operators and is advanced in nature taking the student from conducting bomb disposal duties in a permissive environments to high threat and non permissive operations. The course is designed to expand on existing skills and capability and progress students to a level where they can apply complex threat assessment to tasks or scenarios in a non-permissive environment. The course is intensive and a mixture of theory and practical tasks and assessments and covers the following subject areas in depth:

- Using Threat Assessment to identify the Time, Command and VO Threat
- The projected weapons threat
- The generic threat on High Threat Operations
- Using Threat Assessment for individual skills
- Tactical design of IEDs
- Terrorist Preparation of the Environment (TPE)
- Arrival drills and advanced questioning technique
- Initial and developed threat assessment
- Using Threat Assessment to reduce risk
- Threat Assessment for dismounted operations
- Threat Assessment for Planned Operations
- Whiteboard tasks, micro tasks and training tasks
- Structured assessment tasks



The course can be used as a bridging course to further develop a client capability in specific areas of threat assessment and its application to Render Safe Procedures for complex IEDD tasks. Additionally the course can be specifically tailored to a client requirement, operating environment or region. At the conclusion of the course, students will have enhanced individual skills and threat assessment in key areas to ensure safety when dealing with IEDs in non-permissive environments where IED Operators / Bomb Techs are being targeted with IEDs.

This course is designed to be delivered to competent and experienced IEDD Operators and Bomb Techs and assumes existing knowledge.

**Please contact ERM for course details and pricing.**

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# SEARCH COURSES

**Specialist defensive and offensive search courses in multiple disciplines to increase resilience, provide protection and attack the network through structured and progressive training based on extensive homeland security and deployed operational experience.**



## COURSES

### **Security Search Course – 2 Weeks (20 Students )**

A basic search course to introduce students to the different techniques, procedures and equipment required to search vehicles and personnel at official checkpoints, government buildings, critical installations or infrastructure locations.

### **Specialist Search Course- 5 Weeks (16 Students )**

A course designed for personnel that will be operating as specialist Intermediate level Search Teams, covering specialist techniques. Equipment and procedures for all search related tasks such as route search, VVIP Protection, building and area search will be covered in addition to other disciplines. The course will produce two Intermediate Search Teams.

### **Advanced Search Course - 6 Weeks (16 Students)**

Specialist search teams trained to provide search capability where the highest level of assurance is required. Training and planning for tasks such as state visits, intelligence led search tasks, high risk route search and search operations targeting known terrorist cells in addition to supporting IEDD teams will be covered. (High assurance search is used where the likelihood of encountering an IED is very high). The course also covers detailed search planning and search effects in addition to intensive practical training. The course will train 2 High Assurance Search Teams.

### **Specialist Search Courses - (Course lengths, student numbers and further details on application)**

Courses covering: Hazardous Environment Search (HES), Covert Search, Search Support to Special Forces, Specialist Equipment, Tactics Techniques and Procedures (TTPs), Specialist courses for Police and Security Personnel and bespoke courses to individual client requirements.



The aim of these courses is to train military, Police or security personnel with various levels of experience in the procedures and principles necessary to become professional and competent in different search related disciplines.

The courses are designed to be stand alone or modular in nature and elements of each course can be tailored to provide training suited to the experience and knowledge of the client to which it is delivered.

**Please contact ERM for course details and pricing.**

# HOMEMADE EXPLOSIVES COURSES

**Specialist and modular courses designed to provide personnel with structured training in all aspects and types of homemade explosives (HME). Courses specifically tailored for First Responders, Police, Military Personnel, IEDD Operators, WIT Teams, Search Trained Personnel, and all Emergency Services including specialist units.**



## COURSES

### **Basic HME Awareness – 1 or 2 Days** (dependant on client requirements)

A course designed to introduce the student to Homemade Explosives covering the main categories of HME including Organic Peroxide Explosives (OPE), Ammonium Nitrate based compounds and other types of HME frequently used or encountered such as ETN. Methods of manufacture, the commercial application of common HME ingredients, hazards associated with more sensitive compounds and the manufacturing process for OPE are all covered on the course. The course culminates with a comprehensive explosive demonstration of different types of HME.

### **Intermediate HME Course – 3 Days**

A standalone course, or follow on module from the basic course, for those students requiring a more in depth knowledge of HME. The course covers different types and identification of HME pre-cursors, mixing processes and demonstrations of the manufacture of common types of HME including OPE. Disposal methods for HME and precursors, the improvised manufacture of items such as detonating cord and detonators, explosive effects of HME, controlled and uncontrolled reactions of compounds and stability and degradation of HME are also covered. Practical explosive demonstrations and range work are included on this course with explosive effects extensively demonstrated.

### **Advanced HME Course – 4.5 Days**

A standalone course, or follow on module from the intermediate course, aimed at specialist personnel with a requirement to manufacture or gain expert knowledge in the manufacture of certain types of HME. The course covers advanced explosive theory relative to HME, storage of recovered HME and precursors, HME disposal techniques, technical measurement of HME explosive effects, manufacture of improvised charges, mixing of HME for trials and field expedient methods of HME manufacture. Students will be assessed during the manufacture of HME and safe demolition of manufactured items.

### **Additional HME Courses – Length - Various**

Specialist courses tailored to specific client requirements can be designed and delivered to cover any aspect of HME, either for manufacture of specific compounds, specialist skills, or discrete courses for specialist clients.



**Courses are run at our fully licensed manufacturing and specialist explosives site and range.**

**Please contact ERM for course details and pricing.**

# Attack the Network (AtN) Courses

**Weapons Intelligence (WIT / WTI) Courses to allow personnel to effectively map and attack the terrorist / insurgent network through structured and progressive training based on extensive operational experience.**



## COURSES

### **3 Week Weapons Intelligence Course (16 Students Maximum)**

This three week package is designed to take personnel with basic military or police skills and knowledge and achieve an end state whereby they can professionally investigate and exploit a scene involving an IED whether post EOD action, post blast or for Sensitive Site Exploitation (SSE). The students will be taught the requirements and procedures for all evidence handling and report writing to the NATO standard.

### **2 Week WIT Course for EOD Trained Personnel (16 Students Maximum)**

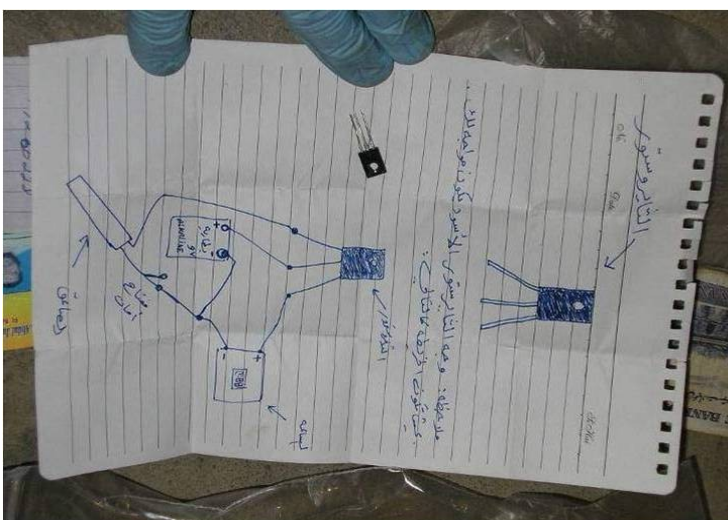
This course will take students who are already trained IEDD operators to an end state whereby they can professionally investigate and exploit a scene involving an IED whether post EOD action or post blast. The students will be taught the requirements and procedures for all evidence handling and report writing to the NATO standard.

### **1 Week Weapons Intelligence Training Course (16 Students Maximum)**

Military or Police IEDD Operators qualified as WIT teams or WIT Team Commanders already qualified on the 2 week WIT Course. This course is primarily concerned with the practical application of procedures linking intelligence and application of existing techniques.

### **Specialist Weapons Intelligence Training**

Courses can be delivered to train and qualify personnel as laboratory technicians, evidence managers, or triage specialists at a level 2 facility. ERM also offers a complete mobile or semi-mobile Level 2 Exploitation Facility complete with equipment and full training.



The aim of these courses is to train military or Police personnel with various levels of experience in the procedures and principles necessary to become professional and competent Weapons Intelligence Operators.

The courses are designed to be modular and elements of each course can be tailored to provide training suited to the experience and knowledge of the audience to which it is intended to be delivered.

**Please contact ERM for course details and pricing.**

# FORENSIC ELECTRONICS

An Electronics Course to allow IEDD trained personnel and forensic investigators to understand the terrorist use of electronics in conventional IEDs based on live incidents, current and developing trends and extensive operational experience.

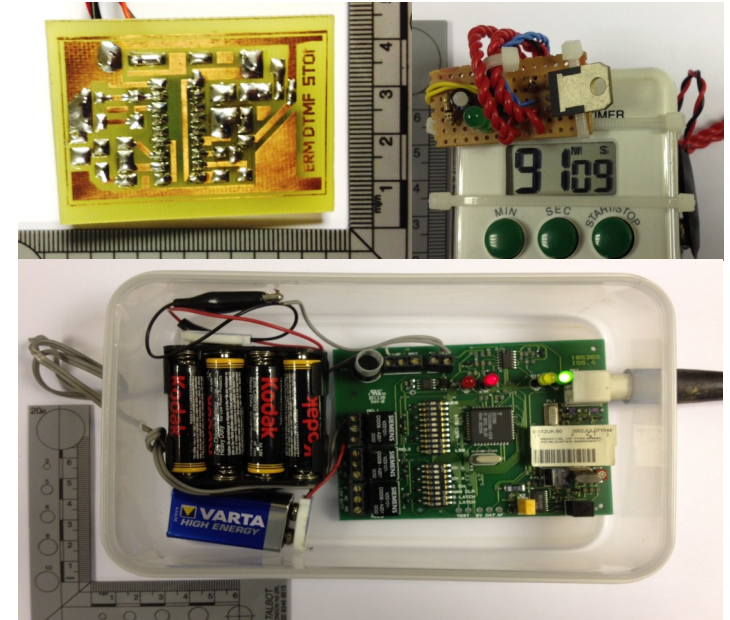
## THE COURSE

### 1 Week IED Electronics Course

This course is designed specifically for specialist personnel and IEDD operators with a requirement to exploit recovered electronic items post blast, post render safe procedure or post recovery from a hide / cache / bomb factory.

The course covers the following modules:

- Electronics Application in IEDs
- Basic Electronic Theory
- Common Electronic Components Used in IED Construction
- Integrated Circuit Theory
- Modification of Electronic Switches for Use in IEDs
- Identification of Components and Switches Post Blast or Post RSP
- Electronics Construction Projects
- Training and Assessment Exercises



The aim of this course is to train military, Police or forensic personnel with various levels of experience in the procedures and principles necessary to conduct initial analysis on the construction and method of functioning of IEDs involving electronic switches or components.

The course is designed to be modular and progressive, to increase the ability of IEDD Operators, Bomb Technicians and Forensic Investigators to identify analyse and exploit electronics used in IEDs. This course would also be suitable for operatives involved in covert intelligence gathering

**Please contact ERM for course details and pricing.**

# EXPLOSIVE ORDNANCE DISPOSAL (EOD) COURSES



**Courses complying with International Mine Action Standards (IMAS) and EU Competency Standards for personnel with a requirement to attain level 1 to level 3 qualifications in Demining, UXO Clearance, Explosive Remnants of War (ERW) Clearance and other specialist ammunition disposal competencies.**

All EOD courses can be delivered at ERM's UK training location with range facilities for demolition of explosives up to 50kg NEQ . Alternatively ERM can deliver training in the clients own country using one of our mobile training teams with extensive global experience in deployed training delivery.

## **Level 1 EOD Operator (IMAS Level 1) – 15 Days**

This course is designed to introduce the student to Conventional Munitions Disposal (CMD), including munitions and mines and the safe handling and use of explosives. The course qualifies students to locate, expose and destroy in situ, single mines and munitions from first principles taught on the course.

## **Level 2 EOD Operator and Supervisors Course (IMAS Level 2) – 15 Days**

A standalone course for qualified personnel, or follow on module from the Level 1 Course, aimed at students with a requirement to move, transport and dispose of single or multiple items of conventional munitions and mines. The student will be fully trained as a supervisor for Level 1 qualified personnel, in addition to developing additional skills. The course covers multi-item demolitions, drafting Standard Operating Procedures (SOPs) for clearance operations, reconnaissance, planning and conduct of clearance operations and the use of basic alternate techniques to render safe and dispose of mines and conventional munitions.

## **Level 3 EOD Operator and Managers Course (IMAS Level 3) – 15 Days**

A standalone course for qualified personnel, or follow on module from the Level 2 Course enabling the student once qualified to supervise level 1 and 2 qualified personnel and conduct logistic disposal tasks of large multi-item demolitions. Additional skills taught are advanced alternate techniques and improvised alternative techniques in addition to the full use and application of EOD weapons and disrupters for CMD and mine clearance operations. Management of tasks, assessment and mitigation of risk and clearance operations including planning and conduct is also taught on this course.

**Please contact ERM for course details and pricing.**



# AMMUNITION TECHNICAL COURSES

A series of courses aimed at personnel responsible for the safe management, remediation, movement, storage and disposal of Ordnance, Munitions and Explosives (OME).



## COURSES

### **Ammunition Storeman - 10 Days**

This course is designed specifically for personnel responsible for the day to day running of an ammunition store or with a requirement for an in depth knowledge of different types of ammunition, ammunition management procedures and best practice for all ammunition logistic requirements.

The course covers the following subjects: *Ammunition by type and design, safe storage of ammunition by compatibility group and hazard division, stockpile remediation and stock rotation, packaging and handling of ammunition, security and accounting procedures, legislation relating to ammunition storage and use and segregation and storage of ammunition for disposal.*

### **Ammunition Manager - 10 Days**

This course is designed specifically for personnel responsible for the management of ammunition storage sites, stockpiles and temporary storage locations and covers the following subjects: *A compressed ammunition storemans course covering days 1-5 and additional training on days 5-10 covering: Management responsibilities, procedural and legislative compliance for ammunition storage sites, siting designing and management of temporary ammunition storage locations, ALARP principles for storage, ammunition incident investigation, quantity distances for safety of personnel, lone worker procedures and ammunition inspection facilities including repackaging and reworking procedures.*

### **Additional Courses – Length Various**

Additional or specialist courses can be designed and delivered in response to specific client requirements in any area of ammunition or explosives training pertaining to storage, movement, disposal former remnants of war (FRW) and remediation of ordnance, munitions and explosives.



All courses are delivered by former British Army Ammunition Technicians with extensive experience in Ordnance, Munitions and Explosives (OME) and are delivered to International Ammunition Technical Guidelines (IATG) or other standards as required such as JSP 482 (British Military Standard) depending on client requirement and or legislation in place.

**Please contact ERM for course details and pricing.**

# UK Training Area

**ERM is privileged to offer full training facilities on the secluded Duchy of Cornwall's Harewood Park Estate close to Hereford and 2 hours from London**

The 900 acre estate is situated in a discreet location between Hereford and Ross on Wye in the rural county of Herefordshire. The training area is a combination of woodland pasture and buildings with intertwining roads and tracks throughout the estate.



## Classroom Facilities

located in a secluded courtyard setting is a large fully functional classroom with a 24 student capacity for instructional and demonstration use. The classroom is attached to instructor accommodation where all facilities are located and has complimentary student WiFi.

## Electronics Classroom and Dirty Workshop

A fully functional high specification technical classroom with additional dirty workshop including industrial machinery for instruction and project work.

## Vehicle Bay and Workshop

A practical space comprising of several garages for practical training with one garage fitted with a vehicle hoist for one car, training equipment, and specialist tools. There is car parking opposite for up to 6 vehicles.

## Rural and Urban Areas

Within the confines of the estate, there are also additional rural areas interspersed with buildings that are suitable for all practical training pertaining to CT, EOD, IEDD, Search and WIT / WTI including a quarry for small scale explosives use. This ensures that scenarios for courses that are mainly practical can use differing terrain and locations to add training realism.

## Range Facilities

We offer extensive range facilities less than 20 minutes by car from Harewood End suitable for all explosive demolitions and practical training requiring the use of a licensed explosives range. The range is licensed for up to 50kg Net Explosive Quantity (NEQ).

## Explosive Laboratory and Trials Range

We offer extensive explosive laboratory and range facilities at our UK Explosive Trials Location in Derbyshire licensed for the manufacture of explosives and ammunition in addition to being a UK Government approved trials location. Our extensive and specialist HME courses are run at this facility.

# Notes:



# ERM

**Explosive Risk Management Ltd**

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Security  
Innovation &  
Technology  
Consortium

Knowledge and  
capability for  
global security  
and resilience

