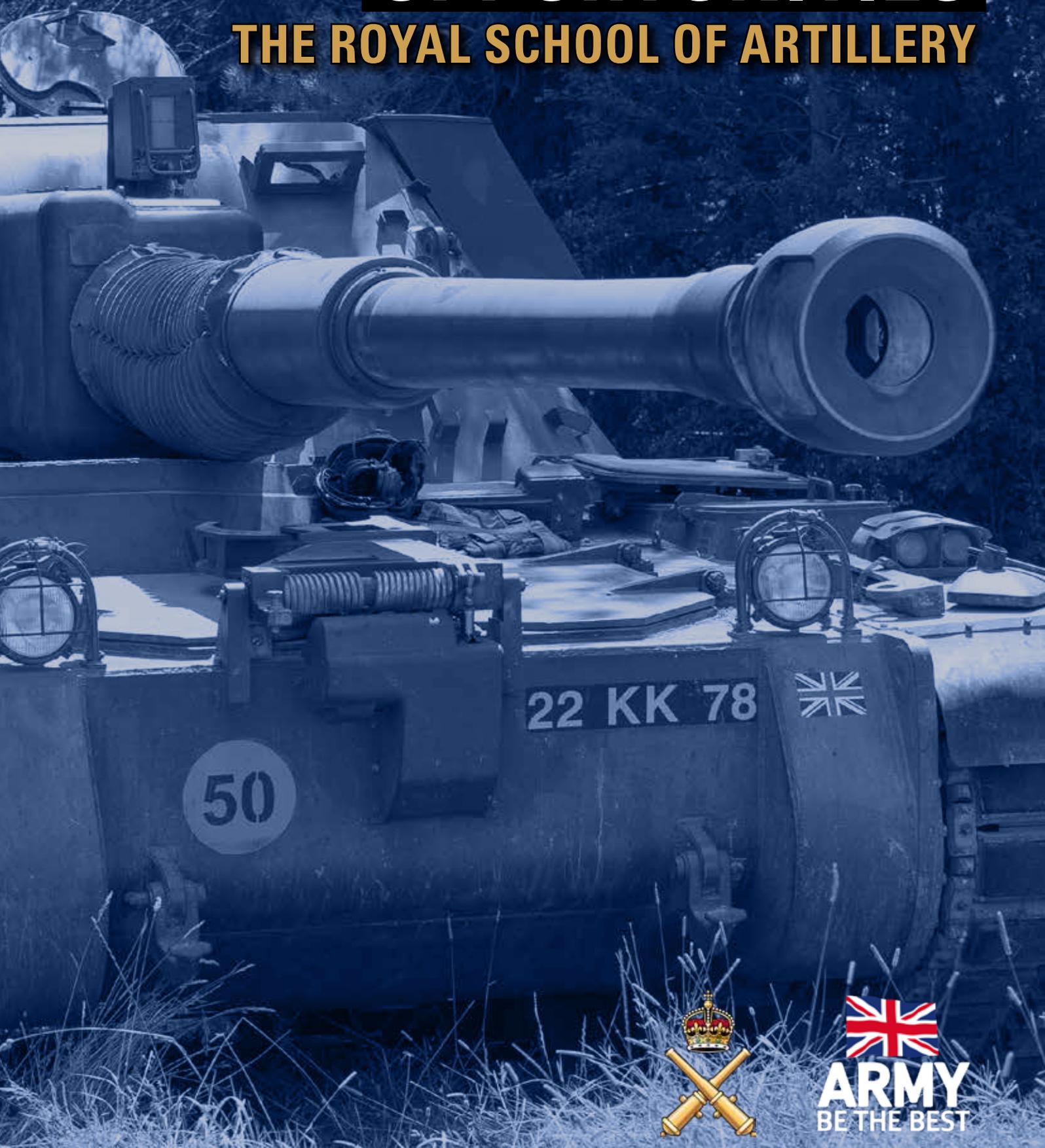
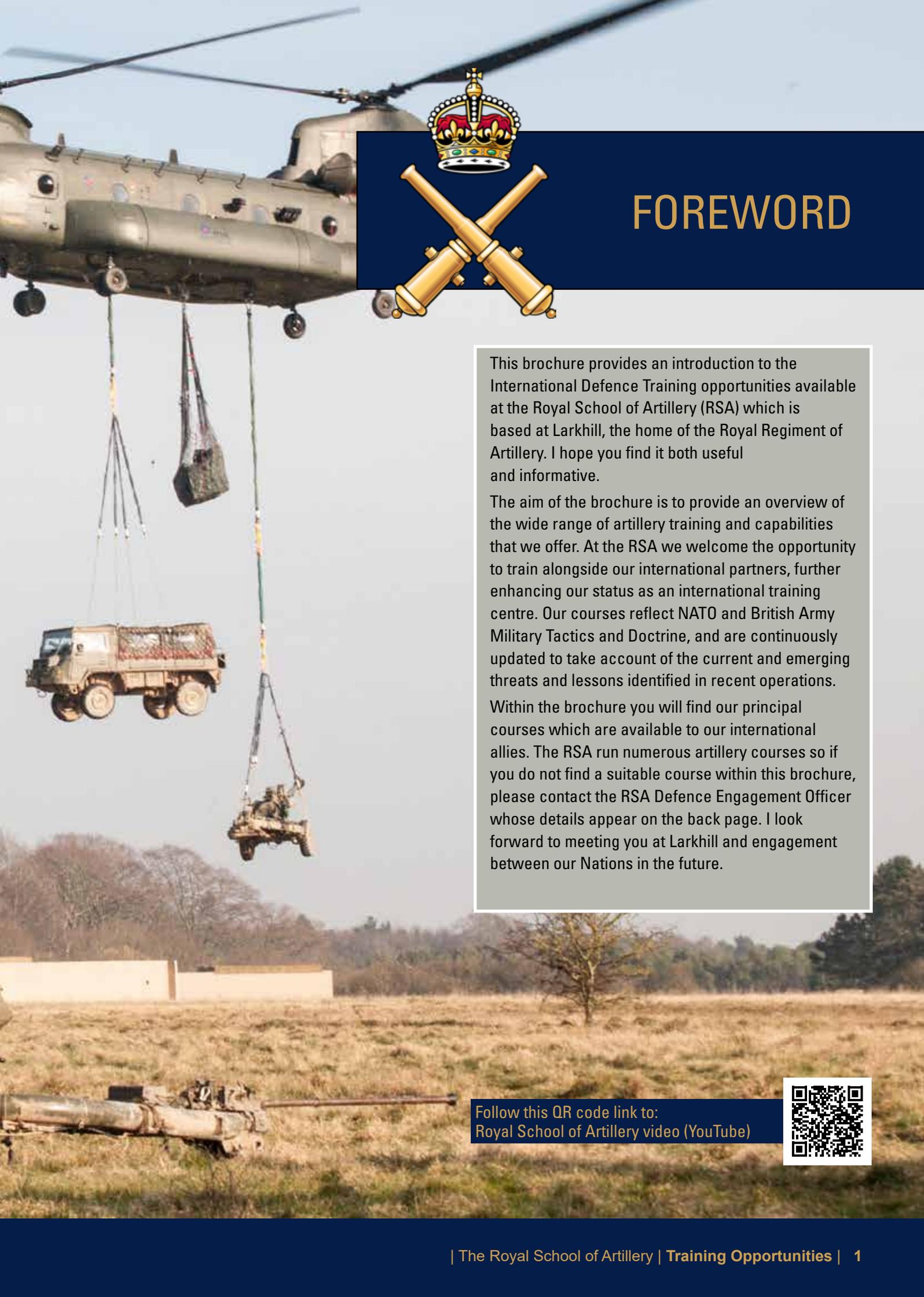


TRAINING OPPORTUNITIES

THE ROYAL SCHOOL OF ARTILLERY







FOREWORD

This brochure provides an introduction to the International Defence Training opportunities available at the Royal School of Artillery (RSA) which is based at Larkhill, the home of the Royal Regiment of Artillery. I hope you find it both useful and informative.

The aim of the brochure is to provide an overview of the wide range of artillery training and capabilities that we offer. At the RSA we welcome the opportunity to train alongside our international partners, further enhancing our status as an international training centre. Our courses reflect NATO and British Army Military Tactics and Doctrine, and are continuously updated to take account of the current and emerging threats and lessons identified in recent operations.

Within the brochure you will find our principal courses which are available to our international allies. The RSA run numerous artillery courses so if you do not find a suitable course within this brochure, please contact the RSA Defence Engagement Officer whose details appear on the back page. I look forward to meeting you at Larkhill and engagement between our Nations in the future.

Follow this QR code link to:
Royal School of Artillery video (YouTube)



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ROYAL SCHOOL OF ARTILLERY OVERVIEW

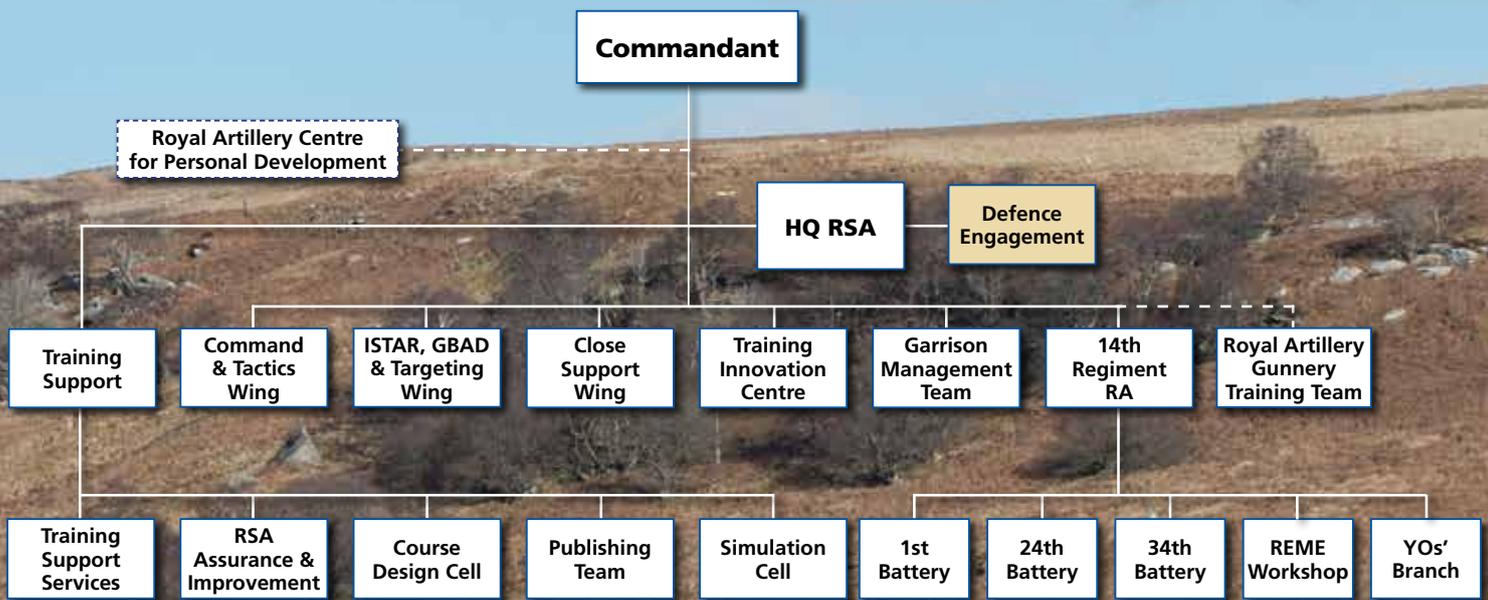
The Royal School of Artillery (RSA) delivers centralised Initial Trade Training (ITT) and Subsequent Trade Training (STT) to the Royal Artillery (RA) on behalf of the Land Warfare Centre (LWC). The RSA sits within Larkhill Garrison in the South West of England near the city of Salisbury. The RA delivers an extremely wide range of capabilities to the modern battlefield. In order to deliver ITT and STT training to meet the current RA requirements, the RSA has to ensure training is delivered annually to some 4,000 students (regular and reserve) on c.16 major equipments over some 350 separate course events. Instruction is delivered by RSA trainers, either in Larkhill or in another suitable location.

The RSA owns the quality assurance of all individual training delivered to the RA. RSA gunnery instruction is delivered by the Instructor Gunnery staff (IGs), the deep technical experts of the RA. Officers qualify from an 11 month technical course and Non-Commissioned Officers (NCOs) qualify from a year long technical course. These instructor courses are also taught at the RSA.



THE ROLE OF THE ROYAL ARTILLERY

The Royal Artillery conducts the planning, integration and execution of Joint Fires and Low Level Air Defence throughout the battlespace, in order to find, fix, strike, exploit and protect in all weathers, in all theatres, 24 hours a day.



**ROYAL SCHOOL OF ARTILLERY
MISSION**

To deliver trained and motivate service personnel capable of operating the artillery system of systems, and leadership skills, in order to deliver success on current and future operational commitments.

ROYAL SCHOOL OF ARTILLERY DEFENCE ENGAGEMENT

The British Army is mandated to conduct a wide range of international training activities. We aim to support current and future operations, develop inter-operability with our allies and deliver international security co-operation objectives.

The Royal School of Artillery (RSA) embraces fully the opportunity to train alongside our military partners, further enhancing our status as first class international training centre.

Our courses continue to reflect the changes and developments in NATO and British Army Military Tactics and Doctrine; including lessons learnt on operations and war fighting.

Should you wish to discuss any aspect of our training; student places, the delivery of bespoke training packages, staff exchanges or the provision of Training Teams, then please do not hesitate to contact me:



SEO Defence Engagement: Mrs Debbie Morrison
telephone: +44 (0) 1980 84 5012
email: deborah.morrison850@mod.gov.uk

BESPOKE TRAINING

The Royal School of Artillery (RSA) offers many diverse training packages in order to meet the specific requirements of our customers. The main individual training placements utilise spare capacity on British Artillery courses run at the RSA in Larkhill, Salisbury, Wiltshire.

We also offer Short Term Training Teams (STTTs) which consist of Artillery subject matter experts who deliver bespoke training packages specifically tailored to meet the requirement set. The STTTs can deliver and support training in the host country. The benefit of such training packages is that they are more cost effective and theatre specific.

Where training delivery capacity exists, the RSA can also offer training courses at Larkhill for groups of international students. The British training programme is therefore adapted to suit the international customer; thereby making the training more relevant and specific.

At the RSA we pride ourselves on the quality of our instructors and innovative training delivery. We ensure the highest standards of instruction; with all our instructors current and competent.

The RSA strives to be as flexible as possible and welcomes opportunities to train and work closely with our international counterparts.



JOINING STANDARDS & INFORMATION FOR INTERNATIONAL STUDENTS

Before undertaking any training at The Royal School of Artillery, all international students must meet prescribed standards for the specific course which will be detailed in the Letter of Training Arranged (LOTA) and the Joining Instructions (JI's).

Failure to meet joining instructions is the responsibility of the student and his/her national authority.

The Postal address for The Royal School of Artillery is:
**ROYAL ARTILLERY BARRACKS,
 LARKHILL,
 SALISBURY,
 WILTSHIRE SP4 8QT**



JOINING STANDARDS AND INFORMATION

Candidates training at The Royal School of Artillery must be in good health and physically fit and robust enough to complete the course.

In order to gain maximum benefit from British artillery training, international students will require a defined level of English. Competent/Modest User of English.

- International English Language Testing System (IELTS). Standard required: Level 5.0
- NATO Standardisation Agency (STANAG). Standard required: Level 2
- Common European Framework (CEP). Standard required: Level B1

Candidates training at The Royal School of Artillery must hold the appropriate Security Clearance in accordance with Defence Manual of Security Vol 1 (JSP 440) and that certificates are sent to SO2(Sy) at the RSA. All artillery courses available to international students are classified at **Official** level.

Failure to provide receipt of the Certificate of Security and Assurance (with a photograph of the student) will prevent access onto the training establishment and to the course.

There may be some courses which require multiple entry visas and this will be made clear in the LOTA & JI's.

Whenever possible, international students are to be accommodated in the relevant artillery Messes, or if the course is longer than 6 months in duration, you will be entitled to Service Families Accommodation (SFA). If you are planning to bring your family with you whilst attending an artillery long course, you will be required to notify the RSA Defence Engagement Officer as soon as possible.

The Royal Artillery catering staff are aware of special dietary needs due to the different cultural backgrounds of international students. There will be at least one dish on each menu which will be acceptable to those whose religion forbids certain food products.

International students are expected to conduct themselves in a manner appropriate to both their parent country and the UK. Instances of misconduct will be treated sensitively and fairly.

INTRODUCTION. The Gunnery Staff embodies the highest standards and expertise of the UK artillery profession. Members of the Gunnery Staff are experts who undergo a rigorous selection and training programme to drive technical and tactical artillery excellence by advising the Chain of Command, developing and delivering world-class training, and developing future artillery capability. The gateway to the Gunnery Staff is through the Gunnery Staff Course for Officers (GO) and Soldiers (GS). These courses broaden employability in the Operations, Operations Support, Capability and Acquisition, and Training career Fields.

AIM. The aim of the course is to train selected Officers and Senior Non-Commissioned Officers to be able to advise and instruct on the employment of artillery, specific to their area of expertise. This will provide Artillery Regiments and Schools with professionally qualified personnel who can integrate the functional effects of the artillery system of systems into any plan or programme from Company Group through to Division.

SCHEDULE. The Gunnery Staff Course for both Soldiers and Officers is up to 29 weeks in duration, depending on which artillery discipline is being taught. The courses follow a similar model, beginning with a 5-week common module, followed by a range of artillery Special to Discipline (StD) environments.



GUNNERY STAFF COURSE

COURSE OVERVIEW

GS01 - Common Module. This module lasts for 5 weeks, focussing on enhancing instructor capabilities by education on methods of delivery via Defence Train the Trainer Course (DTC), a foundation on course design & implementation, Tactics and doctrine in the Fires environment and project management. The delivery of training (DTC) is exclusively within the Subsequent Trade Training (STT) environment. Encompassing a range of teaching methods, the course prepares the individual with essential skills and techniques for teaching. Tactics & Doctrine (Fires) takes trainees out of their comfort zone and is designed to introduce fires doctrine so that it can be applied in an operational and tactical context. Centred on AFM Fires, it provides the trainees with the framework of understanding for our approach to operations and combat. The project management leg will be delivered (online) and will be assessed by an external invigilator.

CLOSE SUPPORT (CS). All CS courses commence with a common module which goes through basic gun design, ammunition and factors affecting first round accuracy. Using mathematical and engineering knowledge, individuals will study the more complex subjects of internal and external ballistics and discuss the causes and how to resolve the indirect fire problem. All CS courses will culminate in a Safety module which will teach them how to plan and conduct artillery live fire ranges.

GS03 - Artillery Command Systems (Strike). The course will conduct a two-week common ACS leg in conjunction with other disciplines, consisting of a Bowman CIS equipment refresher and an overview of the wider strategic communication structures. Trainees will then specialise within discipline and conduct a reconnaissance & manoeuvre leg, in-depth Command Post training inclusive of Divisional Fires, Battlespace Management and Combat Estimate.

GS07 - Gun Group Soldier. The course focuses on an in-depth study into artillery indirect fire equipment and gun design, reconnaissance and manoeuvre and Command Post procedures.

G001/GS08 - Joints Fires Officer & Soldier. The course aims to provide the expertise needed to competently integrate fires and support a manoeuvre unit through the co-ordination and deployment of all Fires Assets. Trainees will complete the Joint Tactical Targeting Course (National caveats apply) and will conduct a conceptual exercise at the divisional level.

GS09 - Divisional Fires. This sub-module is not available to international trainees due to UK security clearance restrictions.



AS90

GUNNERY STAFF COURSE

GROUND BASED AIR DEFENCE (GBAD).

All GBAD courses will commence at Larkhill with the 5 Weeks CM module, all courses will then relocate from Larkhill to Thorney to conduct a 5 week Command, Deployment and Tactics phase with both the ACS & GBAD soldier courses conducting the GBAD Warfare Officers (GWO) course and the GBAD Officers course conducting 5 weeks of Concept, Analysis, Planning, Execution and a confirmation Battle Plan Exercise phase alongside the GWO Cse.

GS14 - CS GBAD Soldier. The GBAD Soldiers course will continue its special to discipline training in Thorney Island. This will see trainees complete a GBAD Training Analysis phase, then a GBAD Common Module with all GBAD Courses covering all GBAD system overviews, followed by 6 weeks of in detail of platform systems training including High Velocity Missile (HVM) LML/SL & SP variants, this will be followed by a Range safety package and an exercise phase including Prac Round firings.

GS15 – GS GBAD Soldier. The GBAD GS course is the first iteration of Sky Sabre training being delivered purely by RSA, the course consists of four StD modules to encompass the Sky Sabre package within a 16 week equipment programme. The student will cover Network landceptor (NLC) BMC4i, G-AMB, and LEAPP as part of their. The students will also cover the Training analysis and Common module in line with their peers.

GS06 - Artillery Command Systems (GBAD). The course will conduct a two-week common ACS leg at Larkhill in conjunction with the other disciplines, consisting of a Bowman CIS equipment refresher and an overview of the wider strategic communication structures. Trainees will then conduct the GBAD Common Phase covering all GBAD system overviews at Thorney Island, followed a GBAD ASC specialise to discipline module, It will then conduct a platform overview phase covering HVM & Skye Sabre in detail. Towards the end of the term, it will conduct an exercise phase including the Tactical Air Battle Management and an additional Electronic Warfare Courses.

G002 - GBAD Officer. This course also commences with a Special to Discipline training phases at both Thorney & Larkhill, this will see the trainees conduct 5 weeks of development of a greater understanding of analysis and conceptual thinking in all GBAD matters, it will conduct a Command & Tac Phase under the Command & Tac wing conducting analysis on past operations. Into the second term it will see the trainees conduct a GBAD Common module, it will then see trainees looking at all GBAD equipment available in detail including HVM, SkySabre and LEAPP and how they feed into the divisional level planning, the GBAD officers will also conduct a Range safety package to stage 5, plus run and plan an exercise phase including a Prac Round firings, it too will also conduct Tactical Air Battle Management and Electronic Warfare Courses.



SKY SABRE & LEAPP

GUNNERY STAFF COURSE

ISTAR (Intelligence, Surveillance, Target, Acquisition, Recce)

All STA courses will have a common module consisting of the roles and responsibilities of the STA Regimental and where they fit within the battlefield. Trainees will also learn about Survey, orders, reports and reports and Met.

GS10 - STA Soldier. Individuals will be trained on the Lightweight Counter Mortar Radar (LCMR), Advanced Sound-ranging Programme (ASP) and Mobile Artillery Monitoring Battlefield Radar (MAMBA) as well as conducting a reconnaissance and manoeuvre phase to incorporate all assets.

GS04 - Artillery Command Systems (STA). The course will conduct a two-week common ACS leg in conjunction with other disciplines, consisting of a Bowman CIS equipment refresher and an overview of the wider strategic communication structures. Trainees will then specialise within discipline and conduct a Combat Estimate phase.

GS11-S2 Remote Piloted Air Systems Air System (S2 RPAS) Soldier. Individuals will learn how to operate the AVUAS (PUMA) (DH3) RPAS systems and 1B Quad Copter and all fleet AVUAS (PUMA WASP). Recce, deployment, airspace deconfliction, documentation, simulation, principles of flight and flying the systems are just some of the areas explored within this complex area of expertise.

GS13-Remotely Piloted Air System (RPAS) Air Operations ground operation Soldier. Individuals are trained on the WATCHKEEPER platform, designed to be a Remote piloted aerial vehicle (RPAS) for all weather, intelligence, surveillance, targeted acquisition and reconnaissance (ISTAR used by the British Army).

GS12-Remotely Piloted Air Systems (RPAS) Soldier. Individuals are trained on the WATCHKEEPER platform, designed to be a remotely piloted air system (RPAS) for all weather, intelligence, surveillance, target acquisition and reconnaissance (ISTAR) use by the British Army.

GS05-Artillery Command Systems (RPAS). The course will conduct a two-week common ACS leg in conjunction with other disciplines, consisting of a Bowman CIS equipment refresher and an overview of the wider strategic communication structures in conjunction with RPAS platforms. Trainees will then specialise within discipline and conduct a Combat Estimate phase and Human Factors.

GO02-ISTAR Officer. This course will see the trainees get an in-depth look at all platforms and capabilities throughout STA and S2RPAS, and RPAS and be able to advise and integrate in higher formation planning. They will also conduct numerous bespoke courses external to RSA with planning and execution of ISTAR in conventional and non-conventional battlespaces.



LCMR



MAMBA



WATCHKEEPER

AIM. The purpose of the RASOC is to train Royal Artillery Officers and Warrant Officers, who operate at formation level, to understand and plan the integration and use of ISTAR and fires (including Air Defence (AD)). The course is designed to produce staff officers/WOs capable of; contributing effectively to formation level staff estimates; producing the appropriate elements of formation-level Operational Staff Work (OSW) i.e. Intelligence, Surveillance Targeting Acquisition Reconnaissance (ISTAR), Fires and AD annexes; understanding land tactical targeting; advising the commander on ISTAR and Artillery operations.

SCHEDULE. There are three courses per year - 5 days duration:

Capabilities. Briefs are delivered by the key Royal Artillery formation commanders (1st Artillery Brigade, 7 Air Defence changing to a group, Intelligence Surveillance and Reconnaissance Brigade, and HQ Watchkeeper Force) and their staff outlining employment and deployment, operating procedures and, current and future issues. Students will also understand how a peer adversary operates and the correct means to counter this threat followed by an introduction to full spectrum targeting methodologies.

Additional periods are conducted by Air Support Operations Squadron (ASOS), Military Intelligence, HQ 3rd (UK) Division (Targeting and Current Operations Team), and US Army representatives to further enhance understanding and interoperability for staff processes within the formation construct.

Brigade/Division Level Staff Work. Scenario-based, syndicate training driving students to develop operational staff work to include; OpOrder main body input, specific annexes (ISTAR, Fires, AD) and Battlespace Management graphics and products to include the high payoff target list, high value target list, effects guidance matrix, decision support overlays and intelligence collection plan supported by Subject Matter Experts (SMEs) from the field. An understanding of all RA related activity during the planning cycle and estimate process is delivered including Wargaming.

Simulation Exercises. The course conducts a series of low-level tactical simulation exercises which facilitate understanding and reinforce an appreciation of the complexities RA personnel operating at staff level and the Air Land Integration processes required therein.

QUALIFICATION:

- a. RASOC.



The course is designed to develop the professional knowledge and skills of junior officers in order to prepare them technically and professionally for their first regimental appointment.

AIM. To develop the “Officership” of newly commissioned RA Officers and to deliver a technical and tactical foundation to enable them to command effectively on their initial tour of duty. Training objectives cover four main areas:

a. **Organisation and Deployment.** The capabilities, organisation, roles and tactical employment of UK artillery.

b. **Roles and Responsibilities of a Royal Artillery Troop Commander.** The administration and management of vehicles, equipment and personnel both in-barracks and on deployment.

c. **Technical Training.** The detailed technical understanding of UK artillery systems including command and control. On selection of discipline deeper technical training is undertaken which is pertinent to the chosen discipline.

SCHEDULE: The course is 6 weeks long and is modularised to facilitate the attendance of Reserve Officers. The course is run 3 times per year usually starting: Early January, Late April and Early September. Each iteration of the course is followed immediately by separate “Special to Discipline” Young Officer courses lasting between 3 – 8 weeks.

QUALIFICATION:

a. Royal Artillery Troop Commander.

PRE-COURSE STANDARDS: Students must have/be:

a. Minimum rank of 2nd Lieutenant.



This course qualifies trainees to become a Command Post Officer (CPO) Close Support (CS). The CPO is responsible for the efficient operation of the Command Post in response to Calls for Fire. They supervise the computation of ballistic data and relay this information to the Gun Platforms.

AIM. The aim of the course is to train selected officers to carry out the duties of a CPO CS. Training objectives cover the following:

a. Operate within a Close Support Regiment Structure.

Understand the mission of a Gun Regiment within brigade and divisional settings.

b. Carry out the Duties of a CPO during Deployment.

To include the understanding of the tactical picture, deployment and occupation procedures.

c. Carry out Fire Missions Procedures. Learn and develop technical competence in the computation of firing data using the current in service systems, Fire Control Battlefield Information Systems Application (FCBISA and Manual Production Of Data (MPOD).

Develop an in-depth theoretical and practical knowledge of all RA indirect fire missions.

The course Includes both simulation, dry and live serials working in both field and Urban settings.

d. Manage Battery Equipment. Develop an understanding of the maintenance chain within a Gun Regiment and procedures that need to be completed.

e. Introduction to Ballistics. Conducted at the Defence Academy Shrivenham, an in depth, 3 day study into the development of artillery systems and application of ballistics for artillery.

f. Safety. The competences of range staff, safety staff and unit personnel in the planning control, conduct and safety of live practices involving discipline-specific equipment.

SCHEDULE: The course is 8 weeks long and is run 3 times per year immediately after the Young Officers course Common Module usually starting: Mid February, Early June and Mid October.

QUALIFICATION:

a. Young Officer Close Support.

b. Close Support Gun Position Safety Officer (GPSO).

Pre-course Standards: Students must have/be:

a. Minimum rank of 2nd Lieutenant.



YOUNG OFFICER – GROUND BASED AIR DEFENCE (GBAD)

Y01B

The course is designed to ensure the necessary knowledge and experience is given to qualify a junior officer as a Ground Based Air Defence Troop Commander in an Air Defence regiment.

AIM. The aim of the course is to train selected officers to carry out the duties of a Troop Commander (TC)/ Command Post Officer (CPO) Ground Based Air Defence (GBAD).

Training objectives cover all technical knowledge and practice to qualify as a Ground Based Air Defence Troop Commander:

a. **Organisation and Deployment.** The organisation, roles and tactical employment of UK GBAD artillery. Identify the key components of the Joint AD environment and the way in which UK GBAD can be fully integrated. Includes both NATO and UK, (Land, Maritime and Air) Command and Control (C2) structures and procedures.

b. **GBAD Liaison Officer (LO).** The role and responsibilities of the GBAD LO within Division (Div), Brigade (Bde) and Battle Group (BG) to include GBAD current and future planning on operations in support of the commanders mission. To provide the Bde/BG with an AD technical expert whilst on operations.

c. **Roles and Responsibilities of an Air Defence Troop Commander.** Understanding the management, employment and deployment including C2 of UK GBAD systems.

d. **Technical Training.** The detailed technical understanding of UK GBAD weapon systems, land/air/ maritime integration air space planning, Battlespace Management (BM) and C2 systems.

e. **Practical Training.** Students conduct base line weapon system training in siting and deployment exercises and Brigade level staff planning training to include war gaming and simulation.

SCHEDULE: The course is 6 weeks and 2 days long and is run 3 times per year immediately after the Young Officers course Common Module usually starting: Mid February, Early June and Mid October.

QUALIFICATION:

a. Young Officer GBAD.

PRE-COURSE STANDARDS: Students must have/be:

a. Minimum rank of 2nd Lieutenant.

YOUNG OFFICER – SURVEILLANCE TARGET ACQUISITION (STA)

Y01H



AIM. To train and develop selected Young Officers to carry out the deployed duties of a Troop Commander within 5 Regt RA.

Training objectives cover two main areas:

a. **Conduct Counter-Fires planning. Conduct planning and execution at BG and Bde level, employing understanding of RA capabilities and those of adversaries in the counter-fires battle.**

b. **Conduct Recce.** For Acoustic Weapon Locating and Weapon Locating Radar systems in service with 5 Regt RA.

SCHEDULE: The course is three weeks long, comprising of a counter-fires and capabilities week, a recce week and finally, a summative assessment exercise in week three. It runs three times per year, immediately after the Young Officers course Common Module usually starting: Mid-February, Early-June and Mid-October.

QUALIFICATION:

a. Young Officer STA.

Pre-course Standards: Students must have/be:

a. Minimum rank of 2nd Lieutenant.

YOUNG OFFICER – MULTIPLE LAUNCH ROCKET SYSTEM (MLRS) COMMAND POST OFFICERS & BATTERY RECCE OFFICERS COURSE

Y01E

The course is aimed at Officers on initial special-to-discipline training for employment as a Troop Commander within a MLRS Battery.

AIM. The aim of the course is to train and develop the skills and knowledge of selected Officers and Senior Non-Commissioned Officers to perform the tasks of an MLRS Command Post Officer (CPO) and Battery Reconnaissance Officer (BRO):

- Interpret and execute deployment orders.
- Conduct the duties of a CPO during deployment.
- Carry out recce procedures for standard and non-standard deployments.
- Implement the survey plan.

SCHEDULE: The course is 5 weeks long and runs twice a year.

QUALIFICATION:

- MLRS Command Post Officer.
- MLRS Battery Recce Officer.

PRE-COURSE STANDARDS: Students must have/be:

- 2Lt or Above.
- SNCO.



MLRS



Aim. The JTTC is designed for staff who will be employed at Headquarters using tactical targeting procedures. This will enable them to operate competently within a targeting organisation, specifically at the Component Command level, and offer advice as an effective member of a targeting group at the tactical level. This course includes a one-week Collateral Damage Estimation Module. This examinable course is lecture-based and incorporates practical exercises and external visits to industrial and infrastructure sites. The course is aimed at OR4 up to OF4.

Week 1. The first week of the course covers all aspects of the Joint and Tactical Targeting Cycles. It primarily comprises of guest speaker briefings from subject matter experts across the UK Defence Targeting Enterprise (DTE). The topics covered include briefings from UK targeting organisations at strategic, operational, and tactical levels, as well as NATO targeting procedures within the Allied Rapid Reaction Corps (ARRC). There is also a series of briefings from key enablers in the targeting process, including Legal Considerations, Intelligence Support to Targeting, and Information Activities and Outreach.

Week 2. The second week of the course is when students conduct the UK Collateral Damage Estimation (CDE) Methodology Module. The aim of this week is to teach students how to conduct a formal Collateral Damage Estimate of a target as part of the Deliberate Targeting Process. The week consists of presentations on UK CDE Policy and the technical scientific data behind the methodology. Students work their way through a series of practical exercises in which they practise the application of the CDE methodology within different exercise workbook scenarios. The final part of the CDE module is a practical and written assessment.

Week 3. The third week of the course comprises of a series of presentations including Battle Damage Assessment, Analytical Tools, and Targeting Outputs of Intelligence Preparation of the Environment (IPE)

Students then put these topics into practise through syndicate exercises in which the students demonstrate their understanding through the production of targeting products and back briefs. The final confirmation of this week is an execute phase using simulation.

Week 4. The final week is broken down into stages. Students visit a complex urban environment and as part of the course scenario, conduct analysis of infrastructure as potential targets. Syndicate exercises enable students to discuss and present targeting considerations of these targets. The targets are then presented as target packs for delivery to a Target Engagement Authority (TEA) on a Target Clearance Board (TCB). This process is repeated for numerous targets in preparation for the final assessment.

The following training objectives will be achieved:

1. Manage a Targeting Cell.
2. Understand and conduct the Planning Process.
3. Understand the application of UK Targeting Policy and the associated legal considerations.
4. Understand and apply Integrated Action.
5. Plan and integrate Munitions and Non-Munitions Based Effects.
6. Understand and conduct UK Collateral Damage Estimation.

Schedule. There are three Joint Tactical Targeting Courses per year. Generally, they are conducted in Jan, May, and Oct. The duration of the course is 20 working days.

Qualification. Qualified UK Joint Tactical Targeteer (Q-JTT) and UK Collateral Damage Analyst (Q-CDEUK)¹ Pre-course standards. Students are required to have:

- a. Experience in military planning.
- b. Experience with IT (use of MS Word, Excel and PowerPoint is essential).
- c. Minimum of SC security clearance.

1. The UK has adopted the US CDE methodology with UK policy caveats. The UK CDE qualification is not US or NATO accredited)
 2. The CDE module is a UK CDE qualification and is not US or NATO accredited).

INTERNATIONAL TACTICAL TARGETING COURSE (Non FVEYS)

Aim. The course is designed for International Partners who will be employed at Headquarters using tactical targeting procedures. On completion it will enable individuals to operate competently within a targeting organisation, specifically at the Component Command level, and offer advice as an effective member of a targeting group at the tactical level.

Week 1. Week one of the course comprises a series of presentations including Targeting Cycles, Battle Damage Assessment, Analytical Tools, and targeting outputs of Intelligence Preparation of the Environment (IPE). It includes a series of briefings relating to key enabling and integrated activity of the targeting process. Areas of focus are: Legal Considerations, Intelligence Support to Targeting, and Information Activities and Outreach.

Week 2. In week two, students put the topics from week one into practise through syndicate exercises, in which the students demonstrate their understanding through the production of targeting products and back briefs. The final phase of week two enables students to look at infrastructure targets and analyse the targeting considerations of these targets in order to present options to a commander for a decision.

Training Objectives. The following training objectives will be achieved:

1. Manage a Targeting Cell.
2. Understand and conduct the Targeting Process.
3. Understand and apply Land Integrated Action.
4. Plan and integrate Munitions and Non-Munitions Based Effects.

Schedule. There is one International Tactical Targeting Course per year. The course duration is 10 working days.

Qualification. There is no formal qualification for this course.

Pre-course standards. Students are required to have:

- a. English Language level: IELTS 5.5 or equivalent.
- b. Experience in military planning.
- c. Experience with IT (use of MS Word, Excel and PowerPoint is essential).
- d. Security cleared via associated Embassy and UK MOD.





AIM. The Fire Support Team (FST) Commander course will provide the participant with the expertise to enable them to competently command an FST. This involves supporting a manoeuvre sub-unit through the co-ordination and deployment of all forms of Joint Fires assets. The FST Commander will also be expected to translate the Subunit Commander's intent, provide continuous surveillance of the battlefield and facilitate the passage of tactical information..

SCHEDULE: The course duration is 11 weeks:

- a. **Artillery Observer.** The initial phase of the course will last 6 weeks and will include instruction on all artillery mission practices.
- b. **Joint Fires.** The subsequent 4 weeks will focus on their role as an FST Commander. It introduces students to the different fire support assets available to a Battlegroup and instructs them on how to fire plan whilst

integrating the assets effectively and safely

c. **Joint Fires Cell and Battlegroup Command Post (BGCP).** The final week-long package introduces students to the BGCP, providing insight into how the Battery Commander (BC) influences the battle. Participants will focus on BC's Fire Plans and how an effective Joint Fires Cell integrates into the BGCP.

QUALIFICATION:

- a. Fire Support Team Commander.
- b. Junior Officer Tactical Awareness Course (JOTAC).

FST 2IC COURSE

T09A

AIM. The aim of this course is to train service personnel to Fire Support Team (FST) Level 2ic standard; giving them the basic skills needed to conduct missions as a secondary FST assistant. The course will provide trainees with the skillset required to assist their FST when operating at Company/Squadron level. The focus of the course is to enable the soldier to conduct an array of fire missions under the direction of the FST Commander or Assistant. The soldier will also be qualified to conduct missions as a Fire Support Individual on operations and in extremis. In addition, students are also taught the basics of Observation Posts, FST Surveillance and Target Acquisition equipment, and the administration of the FST.

SCHEDULE: This course is a residential seven-week long training package with both in-camp training, field lessons and a 2-week live firing period.

QUALIFICATION:

- a. FST 2ic.

PRE-COURSE STANDARDS: Students must have/be:

- a. Selected for Lance Bombardier.



FST DC COURSE

T09D

AIM. The aim of this course is to upgrade trainees to Fire Support Team (FST) DC, giving them the confidence and experience to fulfil the role of an FST Assistant (FST Ack). The course will provide trainees with the skills to operate at a sub-unit level, assisting their FST Commander in the control and integration of fires during training and on operations. It will also enhance their instructional abilities and develop the skills to administrate, train and manage their FST.

SCHEDULE: The course is a residential four weeklong training package with both in-camp training, field lessons and exercise phases. The course will be integrated, in part, with the FST Commander Course and focuses on the following elements:

- a. Fire planning and integrating fires at sub-unit level.
- b. Live Firing: Sub unit level fire planning
- c. Supervising and delivering FST training.

QUALIFICATION:

- a. Fire Support Team Assistant.

PRE-COURSE STANDARDS: Students must have/be:

- a. Bombardier.



FIRESTORM

FST BC ASSISTANT COURSE

T09E

AIM. The aim of this course awareness of battle group (BG) level operations and give them the confidence and experience to fulfill the role of BCs ACK is to upgrade trainees to Fire Support Team (FST). The course will provide trainees with the knowledge and skills to assist their BC in the control and integration of fires at the Battlegroup (BG) level, as well as playing a crucial role in the training and administration of the Tactical Group.

SCHEDULE: The course is a residential four weeklong training package with both in-camp training and field lessons. The course will be integrated, in part, with the BC's Course and focuses on the following elements:

- a. Fire planning and integrating fires at a Battlegroup level.
- b. Supporting a BC in a combined arms Battlegroup.
- c. Managing and delivering Tactical Group training.

QUALIFICATION:

- a. Battery Commander's Assistant.

PRE-COURSE STANDARDS: Students must have/be:

- a. Sergeant.



BC COURSE

T01A

AIM. The aim of this course is to develop the knowledge and skills of selected Officers to carry out BC duties within a Close Support environment. It provides the experience of working with a Battery Commander's Assistant (BC's Ack) both in the Battlegroup (BG) Command Post and deployed. The course will provide trainees with the knowledge and skills to assist their Commanding Officer by controlling and the integration of fires at the BG level. Oversight of the Battery from a training and administration perspective as well as overall artillery capabilities.

SCHEDULE: The course is a residential three weeklong training package with both in-camp training and field activity. The course will be integrated, in part, with the BC's Ack Course and focuses on the following elements:

- a. Fire planning and integration of fires at Battlegroup level.
- b. Advise the Commanding Officer in a combined arms Battlegroup on the employment of fires.
- c. Managing and delivering of Jt Fires training and safety procedures.

QUALIFICATION:

- a. Battery Commander's Course (Close Support).

PRE-COURSE STANDARDS: Students must have/be:

- a. ICSC(L) qualified.



AIM. The aim of the course is to develop the skills and knowledge of selected officers in order to train them to perform the tasks of a Ground Based Air Defence (GBAD) Battery Commander (BC).

SCHEDULE: There is one course per year (duration 3 weeks). The course covers five main areas:

- a. **UK GBAD Capabilities.** Students will gain a technical awareness of all UK GBAD weapon systems and Land Environment Air Picture Provision (LEAPP) assets.
- b. **GBAD Planning.** The students will be updated on the threats currently faced by UK GBAD forces, including briefs from Fixed Wing (FW) and Rotary Wing (RW) pilots. They will then receive training on how to conduct GBAD planning, focusing on the Brigade Air Defence Cell (BADC), the conduct of the GBAD estimate as well as carrying out GBAD table top planning exercises up to and including the deployment of GBAD assets.
- c. **GBAD Command and Control (C2) and Integration.** Students will be able to understand how the air defence battle is controlled from the Formation Air Defence Cell (FADC) down to the Fire Co-Ordination Cell (FCC) at Battlegroup level, including an insight into GBAD Command Post (CP) procedures. They will also find out how GBAD is integrated into the air and maritime components.
- d. **GBAD Assurance Processes.** The students will get the opportunity to visit the UK GBAD formation headquarters and gain an understanding on how they assure their GBAD Units. This will include what role the Battery Commander plays in the process.
- e. **GBAD Range Practices.** The students will gain an understanding on how to plan and conduct GBAD range practices. The students will undertake the Officer in Charge (OIC) Practice training, which will allow them to conduct Battery missile practice camps.

QUALIFICATION: Upon completion of the course students will be trained with sufficient knowledge to perform the duties of a GBAD BC able to:

- a. Train the Battery.
- b. Plan and deliver GBAD including Missile Practice Camps.
- c. Act as a Liaison Officer as required.
- d. Plan and direct formation battlespace management (delivered on the Joint Battlespace Management Course).

PRE-COURSE STANDARDS: Students must have/be:

- a. Officer - Minimum Rank Lieutenant.





SKY SABRE

AIM. The aim of this course is to develop the knowledge and skills of selected personnel in order to train them to carry out duties of a GBAD Warfare Officer (GWO) within a Guided Weapons (GW) environment.

SCHEDULE: There are two courses per year (duration 30 days). The course covers nine main areas:

a. Integrate GBAD into the Joint AD environment.

Students will be able to understand how the air defence battle is controlled from the Formation Air Defence Cell (FADC) down to the Fire Co-Ordination Cell (FCC) at Battlegroup level, including an insight into GBAD Command Post (CP) procedures. They will also find out how GBAD is integrated into the air and maritime components.

b. Conduct GBAD Planning. The students will be updated on the threats currently faced by UK GBAD forces, including briefs from Fixed Wing (FW) and Rotary Wing (RW) pilots. They will then receive training on how to conduct GBAD planning, focusing on the Brigade Air Defence Cell (BADDC), the conduct of the GBAD estimate as well as carrying out GBAD table top planning exercises up to and including the deployment of GBAD assets.

c. Deconflict airspace. Students will be taught how to achieve the requirements of GBAD airspace deconfliction.

d. Employ GBAD assets. Students will be able to understand how to apply the principles of GBAD employment as well as employing the principles of joint AD. They will be able to plan for GBAD deployment tasks and understand the requirements needed to command GBAD assets.

e. Coordinate airspace control. Students will be taught how to apply airspace control and employ early warning procedures.

f. Deploy GBAD assets. Students will be able to understand the requirements needed for deploying

GBAD assets, including; receiving and interpreting orders, conducting local Intelligence Preparation of the Environment (IPE), deploying recce assets, conducting Co-ord, managing deployment orders, planning deployments, establishing the Air Defended Area (ADA) and planning for future tasking.

g. Conduct hostile threat procedures. Students will be taught how to conduct the escalation / de-escalation processes.

h. Maintain battle rhythm. Students will be taught how to conduct tactical map marking as well as being able to employ passive GBAD measures and given the tools to deliver coherent verbal briefings.

i. Explore C4i systems. Students will be taught how to use and utilise the Communication Battlefield Application Tool (ComBAT) and GBAD Battlefield Information System Application (GBAD BiSA) systems.

QUALIFICATION: Upon completion of the course students will be trained with sufficient knowledge to perform the duties of a GWO able to:

- a. Integrate GBAD into the Joint AD environment.
- b. Conduct GBAD planning.
- c. Deconflict airspace.
- d. Employ GBAD assets.
- e. Coordinate airspace control.
- f. Deploy GBAD assets.
- g. Conduct hostile threat procedures.
- h. Maintain battle rhythm.
- i. Utilise C4i systems.

Pre-course Standards: Students must have/be:

- a. Soldier - Staff Sergeant / Warrant Officer 2.
- b. Officer - Lieutenant / Major.
- c. Good English Language ability or IELTS Level 5.0.

AIM. The course develops the professional knowledge and skills of substantive Bombardiers in order to prepare them technically and professionally as MLRS Level 4 Detachment Commanders.

The course upgrades MLRS Level 2ic Advanced Operators to Level 4 Detachment Commanders. The course is specifically designed to train soldiers to competently operate the MLRS in the field and in barracks. Training objectives include:

- a. Live Firing Drills.
- b. React to Equipment Faults.
- c. Command the SPLL.
- d. Ammunition Drills.
- e. Conduct Unit Training.

SCHEDULE: The course is 5 weeks long and runs once a year.

QUALIFICATION:

- a. MLRS Detachment Commander.

PRE-COURSE STANDARDS: Students must have/be:

- a. Bombardier or above.
- b. MLRS Armoured Fighting Vehicle Commander.
- c. MLRS Advanced Operator (L2ic).



MLRS



AIM. The course is designed to develop the professional knowledge and skills of Lance Bombardiers or above in order to prepare them technically and professionally as MLRS Advanced Operators.

The course upgrades MLRS basic operators to 2ic. The course is specifically designed to train soldiers to competently operate the MLRS and act as the detachment 2IC in the field and in barracks. Training objectives include:

- Operations of the Gunner Display Unit.
- Maintenance tasks.
- MLRS deployment procedures.
- Fire mission procedures in extremis.
- Survey drills.

SCHEDULE: The course is 4 weeks long and runs once a year.

QUALIFICATION:

- Multiple Launch Rocket System Advanced Operator.

PRE-COURSE STANDARDS: Students must have/be:

- Lance Bombardier or above.
- MLRS Armoured Fighting Vehicle driver.
- MLRS Basic Operator.



AIM. The aim of this course is to develop the knowledge and skills of selected personnel to carry out duties of a Land Air Picture Provision Detachment Commander (LEAPP DC). The course sits within the GBAD career stream and provides consolidation of knowledge/skills at unit level and development of the skills/knowledge to perform effectively at up to battery level.

SCHEDULE: There are two courses per year (duration 10 days). The course covers four main areas:

a. **Conduct reconnaissance.** Students will be introduced to the concept of carrying out system location reconnaissance, deployment planning and site layouts. This includes the use of electronic planning tools and tactical movement between positions as well as mobile operations.

b. **Deploy and operate the system.** The students will be

taught how to control the deployment and set up the system. They will also be able to configure and optimise the capability against the known threat and prepare the system for movement and further deployment.

c. **Conduct detachment training.** students are taught how to look after their detachment whilst in the field but also how to plan and deliver training whilst in barracks. This includes the use of simulation equipment and system theory to enhance their understanding of the capability.

d. **Maintain the system.** The students will cover how to carry out detachment maintenance procedures, fault finding and testing using specialist equipment. Practice qualification, which will allow them to conduct Battery missile practice camps.

QUALIFICATION: Upon completion of the course students will be trained as Detachment Commanders, who will be able to fulfil:

- a. Conduct reconnaissance.
- b. Deploy and operate the system.
- c. Conduct detachment training.
- d. Maintain the system.

Pre-course standards – Students must have/be:

- a. Minimum rank substantive Lance Bombardier or equivalent.
- b. Qualified LEAPP operator.
- c. Must hold Security Clearance (SC).



AIM. The aim of this course is to develop the knowledge and skills of selected personnel to carry out duties of a Giraffe – Agile Multi Beam Detachment Commander (G-AMB DC). The course sits within the GBAD career stream and provides consolidation of knowledge/skills at unit level and development of the skills/knowledge to perform effectively at up to battery level.

SCHEDULE: There are two courses per year (duration 10 days). The course covers four main areas:

- a. **Conduct reconnaissance and tactical movement.** Students will be introduced to the concept of carrying out system location reconnaissance, deployment planning and site layouts. This includes the use of electronic planning tools and tactical movement between positions as well as Link 16 outputs.
- b. **Deploy and operate the radar system.** The students will be taught how to control the deployment and set up the system. They will also be able to configure and optimise the capability against the known threat and prepare the system for movement and further deployment.
- c. **Conduct Electronic Warfare (EW) management.** The students are given further information on how the system works in relation to EW activity, its potential impact whilst gaining a full understanding to ensure system full potential is maintained.
- d. **Maintain the system.** . Maintain the radar system. The students will cover how to carry out detachment maintenance procedures, fault diagnosis and testing using specialist equipment. This also includes how to disable the system if required.

QUALIFICATION: Upon completion of the course students will be trained as Detachment Commanders, who will be able to fulfil:

- a. Conduct reconnaissance and tactical movement.
- b. Deploy and operate the radar system.
- c. Conduct Electronic Warfare management.
- d. Maintain the radar system.

Pre-course standards – Students must have/be:

- a. Minimum rank substantive Lance Bombardier or equivalent.
- b. Qualified G-AMB operator.
- c. Must hold Security Clearance (SC).



AIM. The aim of the course is to develop the skills and knowledge of selected officers in order to train them to perform the tasks of a Ground Based Air Defence (GBAD) International Battery Commander (BC).

SCHEDULE: There is one course per year (duration 10 days). Students will gain a technical awareness of all UK GBAD weapon systems and capability assets. The course covers four main areas:

a. **GBAD Planning.** The students will be updated on the threats currently faced by UK GBAD forces, including briefs from Fixed Wing (FW) and Rotary Wing (RW) SMEs. They will then receive training on how to conduct GBAD planning, focusing on the Brigade Air Defence Cell (BADCC), the conduct of the GBAD estimate as well as carrying out GBAD table top planning exercises up to and including the deployment of GBAD assets.

c. **GBAD Assurance Processes.** The students will get the opportunity to visit the UK GBAD formation headquarters and gain an understanding on how they assure their GBAD Units. This will include what role the BC plays in the process.

d. **GBAD Range Practices.** The students will gain an understanding on how to plan and conduct GBAD range practices (only for UK GBAD weapon systems). The students will undertake the Officer in Charge (OIC) Practice qualification, which will allow them to conduct Battery missile practice camps.

QUALIFICATION: Upon completion of the course students will be trained with sufficient understanding to perform the duties of a GBAD BC able to;

- a. Train the Battery.
- b. Plan and deliver GBAD including MPCs.
- c. Act as a Liaison Officer as required.
- d. Plan and direct formation battlespace management.

Pre-course standards – Students must have/be:

- a. Officer - Minimum Rank Lieutenant.
- b. Good English language ability or IELTS Level 5.0.



AIM. The aim of the HVM (LML) Level 3 Tactical Controller course is to develop the knowledge and skills of soldiers who are already Level 2 Operators and allow them to carry out the role of tactical controller on the weapon system.

SCHEDULE: There are two courses per year (duration 18 days). The course covers four main areas:

a. **Standing Drills.** The students will be taught how to control the deployment and set up the weapon system. They will also be able to configure and optimise the weapon system for the terrain and threat they will be facing. This also includes preparing the system for movement and further deployment.

b. **Tactical Control duties.** The students will be able control engagements and direct operators in a wide range of scenarios and events. They will get the opportunity to practice and test their skills in purpose-built detachment engagement simulator. As part of their duties they will understand how to conduct local defence and deliver tactical GBAD briefs.

c. **Weapon system servicing and testing.** The students

will cover how to carry out detachment maintenance procedures, fault finding and testing using specialist equipment.

d. **Weapon System Theory.** The students are given further information on how the weapon system works, to build and develop the knowledge. This allows them to gain an understanding of how to use the system to its full potential and assist in fault diagnosis.

QUALIFICATION: Upon completion of the course students will be trained as Tactical Controllers, who will be able to fulfil:

- a. Weapon System Set Up.
- b. Tactical Control duties.
- c. Weapon system servicing and testing.
- d. Target Identification, Engagement Procedures and associated orders.

Pre-course Standards: Students must have/be:

- a. Minimum rank substantive Lance Bombardier or equivalent.



AIM. The aim of the HVM (LML) Level 4 DCs course is to give soldiers who are already Level 3 qualified sufficient knowledge and skills to enable them to command a HVM detachment in the field.

SCHEDULE: There are two courses per year (duration 15 days). The course covers five main areas:

a. **Tactics and Doctrine.** The students will study factors that affect weapon system employment including the air threat, formation structures and doctrine.

b. **Reconnaissance and siting.** Students will be introduced to the concept of carrying out weapon system location reconnaissance, deployment planning and site layouts. This includes the use of electronic planning tools and tactical movement between positions as well as mobile operations.

c. **Detachment management.** The students are taught how to look after their detachment whilst in the field but also how to plan and deliver training whilst in barracks. This includes the use of simulation equipment.

d. **Weapon system servicing and testing.** The students

will cover how to supervise maintenance procedures, carry out commander's checks, fault finding and testing using specialist equipment.

e. **Weapon System Theory.** The students are given further information on how the weapon system works, to build and develop their knowledge. This also includes how to disable the system if required.

QUALIFICATION: Upon completion of the course students will be trained as DCs who are able to fulfil:

- a. Reconnaissance and siting.
- b. Weapon System Set Up.
- c. Detachment management.
- d. Weapon system servicing and testing.
- e. Target Identification, Engagement Procedures and associated orders.

Pre-course Standards: Students must have/be:

- a. Minimum rank substantive Bombardier or equivalent.
- b. Good English Language ability or IELTS Level 5.0.



HVM (LML) - FIRE GROUP COMMANDER (FGC)

AIM. The aim of the HVM (LML) Level 5 FGCs course is to give soldiers who are already Level 4 qualified, sufficient knowledge and skill to enable them to command an HVM Fire Group in the field.

SCHEDULE: There is one course per year (duration 11 days). The course covers three main areas:

a. **GBAD Planning.** The students will be taught about the combat estimate, a planning tool used by Battlegroups. The students will focus on GBAD elements of this process. In addition to this they will gain an understanding of the different tactical actions conducted by Battlegroups and how GBAD features in each of them.

b. **Reconnaissance and siting.** Students will develop their existing knowledge on the concept of carrying out weapon system location reconnaissance, deployment planning and site layouts. This includes: the use of electronic planning tools and detailed map analysis.

c. **Fire Group command and control.** The students are taught how to command a Fire Group of 6 vehicles and control its movement and action on the battlefield. The students will get the opportunity to discuss concepts with current FGCs and get the chance to practice their skills in a simulated environment.

QUALIFICATION: Upon completion of the course students will be trained as FGCs, who will be able to fulfil:

- a. GBAD Planning.
- b. Reconnaissance and siting.
- c. Fire Group command and control.

PRE-COURSE STANDARDS: Students must have/be:

- a. Minimum rank substantive Sergeant or equivalent.
- b. Good English Language ability or IELTS Level 5.0.

HIGH VELOCITY MISSILE SELF PROPELLED (HVM (SP))

HVM (SP) – TACTICAL CONTROLLER

A39A

AIM. The aim of the HVM (SP) Level 3 Tactical Controller course is to develop the knowledge and skills of soldiers who are already basic Operators and allow them to carry out the role of tactical controller on the weapon system.

SCHEDULE: There are two courses per year (duration 18 days). The course covers four main areas:

a. **Standing Drills.** The students will be taught how to control the deployment and set up the weapon system.

They will also be able to configure and optimise the weapon system for the terrain and threat they will be facing. This also includes preparing the system for movement and further deployment.

b. **Tactical Control duties.** The students will be able control engagements and direct operators in a wide range of scenarios and events. They will get the opportunity to practice and test their skills in purpose-built detachment engagement simulator. As part of their duties they will understand how to conduct local defence and deliver tactical GBAD briefs.

c. **Weapon system servicing and testing.** The students

will cover how to carry out detachment maintenance procedures, fault finding and testing using specialist equipment.

d. **Weapon System Theory.** The students are given further information on how the weapon system works, to build and develop the knowledge gained at Level 2. This allows them to gain an understanding of how to use the system to its full potential and assist in fault diagnosis.

QUALIFICATION: Upon completion of the course students will be trained as Tactical Controllers, to be able to fulfil:

a. Weapon System Set Up.

b. Tactical Control duties.

c. Weapon system servicing and testing.

d. Target Identification, Engagement Procedures and associated orders.

Pre-course Standards: Students must have/be:

a. Minimum rank substantive Lance Bombardier or equivalent.

b. Good English Language ability or IELTS Level 5.0.



HVM (SP)

HVM (SP) – DETACHMENT COMMANDER DC

A39

AIM. The aim of the HVM (SP)DC DC course is to give soldiers who are already qualified sufficient knowledge and skills to enable them to command a HVM detachment in the field.

SCHEDULE: There are two courses per year (duration 17 days). The course covers five main areas:

a. **Tactics and Doctrine.** The students will study factors that affect weapon system employment including the air threat, formation structures and doctrine.

b. **Reconnaissance and siting.** Students will be introduced to the concept of carrying out weapon system location reconnaissance, deployment planning and site layouts. This includes the use of electronic planning tools and tactical movement between positions as well as mobile operations.

c. **Detachment management.** The students are taught how to look after their detachment whilst in the field but also how to plan and deliver training whilst in barracks. This includes the use of simulation equipment.

d. **Weapon system servicing and testing.** The students will cover how to supervise maintenance procedures, carry out commander's checks, fault finding and testing using specialist equipment.

e. **Weapon System Theory.** The students are given further information on how the weapon system works. This also includes how to disable the system if required.

QUALIFICATION: Upon completion of the course students will be trained as DCs able to fulfil:

- Weapon System Set Up.
- Tactical Control duties.
- Weapon system servicing and testing.
- Target Identification, Engagement Procedures and associated orders.

PRE-COURSE STANDARDS: Students must have/be:

- Minimum rank substantive Bombardier or equivalent.
- Good English Language ability or IELTS Level 5.0.



HVM (SP)



HVM (SP) – FIRE GROUP COMMANDER (FGC)

A42Z

AIM. The aim of the HVM (SP) Level 5 FGC's course is to give soldiers who are already qualified, sufficient knowledge and skill to enable them to command an HVM Fire Group in the field.

SCHEDULE: There is one course per year (duration 11 days). The course covers three main areas:

a. **GBAD Planning.** The students will be taught about the combat estimate, a planning tool used by Battlegroups. The students will focus on GBAD elements of this process. In addition to this they will gain an understanding of the different tactical actions conducted by Battlegroups and how GBAD features in each of them.

b. **Reconnaissance and siting.** Students will develop their existing knowledge on the concept of carrying out weapon system location reconnaissance, deployment planning and site layouts. This includes the use of electronic planning tools and detailed map analysis.

c. **Fire Group command and control.** The students are taught how to command a Fire Group of 6 vehicles and control its movement and action on the battlefield. The students will get the opportunity to discuss concepts with current FGCs and get the chance to practice their skills in a simulated environment.

QUALIFICATION: Upon completion of the course students will be trained as FGCs able to fulfil:

- GBAD Planning.
- Reconnaissance and siting.
- Fire Group command and control.

PRE-COURSE STANDARDS: Students must have/be:

- Minimum rank substantive Bombardier or equivalent.
- Good English Language ability or IELTS Level 5.0.

GUN POSITION OFFICER (GPO) ASSISTANT RECCE OFFICER (ARO)

G05Z

AIM. The aim of the GPO course is to develop the knowledge and abilities of selected RA personnel to carry out duties of a Gun Position Officer (GPO) focusing on reconnaissance, manoeuvre, technical standards of a gun position and defence.

The aim of this course is to develop the knowledge and abilities of selected RA personnel to carry out duties of an Assistant Reconnaissance Officer (ARO) focusing on reconnaissance, manoeuvre, technical standards of a gun position and defence.

SCHEDULE: Run bi-annually, the course is 5 weeks in duration with a mixture of theory and practical.

Weeks 1 & 2: Classroom lessons focusing on the recce and manoeuvre process of offensive support assets/platforms. In-depth lessons delivered by Royal Engineers regarding map analysis to better understand what can be provided to enhance the manoeuvre capability of offensive support.

Week 3: Confirm theory lessons delivered through Tactical Exercise Without Troops (TEWT) on Salisbury Plain Training Area (SPTA) to enable personnel to gain practical exposure of the recce and manoeuvre process, utilising current British towed and self-propelled platforms.

Week 4: L118 battery deployments on SPTA, encompassing live fire Modified Indirect by day.

Week 5: AS90 dry battery Deployments on SPTA.

QUALIFICATION:

a. GPO.

PRE-COURSE STANDARDS: Students must have/be:

- Officers must be Close Support Command Post Officer Qualified.
- ORs must be substantive rank Sergeant and L4 Qualified (FST, ACS, L118 or AS90).
- International trainees must be competent at low level dismounted/mounted navigational skills.



L118 LIGHT GUN

GUNNER LIGHT GUN L118 2IC TO DETACHMENT COMMANDER DC

G09A



L118 LIGHT GUN

AIM. The Gunner Light Gun Level 2ic Course instructs and qualifies trainees to assist the Detachment Commander (DC) in all aspects of the command and management of resources for the L118 Light Gun, associated equipment and stores. Additionally, successful trainees will be qualified to fire the gun during a basic mission in the absence of the DC.

SCHEDULE: The course is held bi-annually, 5 weeks in duration and is delivered by the Guns and Ammunition Section of the RSA.

The course enables the soldier to safely command and control the detachment, in both training and operational environments, and covers the maintenance and servicing of the gun. To ensure a complete understanding of the role, trainees are qualified to fire the L118 live if the DC is absent from the gun. Tactical deployment and gun position procedures are practiced by day and night, and all possible deployment scenarios are taught and rehearsed.

In-class tuition is reinforced with large periods of practical, hands-on instruction and both live and dry exercises are conducted over several days. Live-fire exercises will incorporate all possible types of live-fire missions - from basic indirect missions through to direct-fire anti-tank and emergency smoke withdrawals; urban deployments and non-standard deployments such as 'Pistol Gun' and 'Quick Actions' are also conducted.

QUALIFICATION:

a. Gunner Light Gun L118 Level 2ic (Detachment 2IC).

PRE-COURSE STANDARDS: Students must have/be:

a. Gunner Light L118 Level operator.

b. Substantive Lance Bombardier.



L118 LIGHT GUN



AIM. The Gunner Light Gun DC Course instructs and qualifies trainees in all aspects of the command, operation and husbandry of the L118 Light Gun, associated equipment and stores. Successful trainees will be qualified as a Detachment Commander and will be capable of controlling the gun in every phase of employment both in training and on high intensity operations.

SCHEDULE: Course is run bi-annually, 5 weeks in duration and is delivered by the Guns and Ammunition Branch of the Royal School of Artillery.

The course enables the soldier to operate the L118 Light Gun during both dry and live firing deployments, by day and night. Additionally, they will be capable of maintaining and servicing the gun to ensure availability. To allow complete understanding of the system, trainees are qualified in the duties of Gun Line Section Commander and are given a firm understanding of gun position reconnaissance procedures. All methods and types of tactical deployments are taught, rehearsed and mastered and all gun position procedures are practiced by day and night.

In-class tuition is reinforced with large periods of practical, hands-on instruction and both live and dry exercises are conducted over several days. Live-fire exercises will incorporate all possible types of live-fire missions - from basic indirect missions through to direct-fire anti-tank and emergency smoke withdrawals; urban deployments and non-standard deployments such as 'Pistol Gun' and 'Quick Actions' are also conducted. Additionally, trainees will be able to deliver instruction to the detachment on a range of subjects.

QUALIFICATION:

- a. Gunner Light Gun L118 (Detachment Commander).

PRE-COURSE STANDARDS: Students must have/be:

- a. Substantive Bombardier.



WEAPON LOCATING RADAR OPERATOR 2IC

G55A

AIM. The aim of the course is to develop the skills and knowledge of selected soldiers in order to train them to perform the tasks of a Weapon Locating Radar Operator 2ic.

SCHEDULE: There is one courses per year (duration 15 days). The course covers four main areas:

- Standing Drills.** The trainees will be taught how to control the deployment and set up the Radio Detection and Ranging (RADAR) System. They will also be able to configure and optimise the RADAR beam for the threat they will be facing. This also includes preparing the system for movement and further deployment.
- Tactical Control duties.** The trainees will be able to supervise and direct operators in a wide range of deployments. They will get the opportunity to practice and test their skills in a classroom based trainer simulator. As part of their duties they will understand how to conduct local defence and deliver tactical Surveillance & Target Acquisition (STA) briefs.
- Weapon system servicing and testing.** The trainees will cover how to carry out detachment maintenance procedures and fault finding.

d. **Weapon System Theory.** The trainees are given further information on how the RADAR system works, to build and develop the knowledge gained at operator. This allows them to gain an understanding of how to use the system to its full potential and assist in fault diagnosis.

QUALIFICATION: Upon completion of the course trainees will be trained as (Mobile Artillery Monitoring Battlefied Radar (MAMBA) Level 2ic operators able to fulfil:

- MAMBA System Set Up.
- Tactical deployment .
- Location mission.
- Fire control mission.

PRE-COURSE STANDARDS: Students must have/be:

- Substantive Lance Bombardier.
- MAMBA Operator must be successfully completed with 8 months consolidated Training.
- Must hold RA Communicator part 2 or RA Basic Signaller qualification.



WEAPON LOCATING RADAR OPERATOR DC

G56A

AIM. The aim of the course is to develop the skills and knowledge of selected soldiers in order to train them to perform the tasks of a Weapon Locating Radar Operator Level DC.

SCHEDULE: There are two courses per year (course duration 13 days). The course covers five main areas:

- Tactics and Doctrine.** The trainees will study factors that affect the RADAR system employment including the EW threat, formation structures and doctrine.
- Reconnaissance and siting.** Trainees will be introduced to the concept of WLR reconnaissance, deployment planning and hide layouts. This includes the use of electronic planning tools and tactical movement between positions as well as mobile operations.
- Detachment management.** The trainees are taught how to look after their detachment whilst in the field but also how to plan and deliver training whilst in barracks. This includes the use of simulation equipment.

d. **Weapon system servicing and testing.** The trainees will cover how to supervise maintenance procedures, carry out commander's checks and fault finding.

e. **Weapon System Theory.** The trainees are given further information on how the RADAR system locates, to build and develop the knowledge gained at Level 2ic. This also includes how to disable the system if required.

QUALIFICATION: Upon completion of the course trainees will be trained as MAMBA Level DC operators able to fulfil:

- Apply RADAR Theory.
- Manage Tactical deployment.
- Detailed recce and issue of orders.
- Counter Fires planning.

PRE-COURSE STANDARDS: Students must have/be:

- Substantive Bombardier or equivalent.
- Weapon Locating RADAR Operator Level 2ic.

AIM. The aim of the course is to upgrade substantive Lance Bombardier Gunner SRg Operator qualified soldiers to Level 2ic.

SCHEDULE: There is one course per year (18 days). The course covers nineteen main areas:

- a. **Navigate a vehicle tactically.** Apply the principles of tactical manoeuvre and route planning and navigate a vehicle on the road and across country.
- b. **Carry out a tactical deployment.** Extract orders, identify the threat and carry out a tactical deployment of the Advance Sound Programme (ASP) troop.
- c. **Recce a sensor post position.** Identify suitable locations, produce co-ordinates of microphone one and establish communications.
- d. **Supervise the deployment of sensor post equipment.** Supervise the deployment of the sensor post equipment, apply sensor post geometry (survey) and carry out gross error checks for orientation.
- e. **Mark information on a tactical map.** Set up a tac map and maintain locations up to date and current.
- f. **Supervise the operation of the sensor post processor.** Supervise the Man Machine Interface (MMI) operations, supervise the entry of survey data, supervise the entry of met sensor data, supervise the entry of communication data, check the operational modes, supervise the changeover of SP batteries, supervise the operation of the CMCA generator and supervise fault finding.



- g. **Operate the ASP Command Post MMI.** Identify technical and physical characteristics, confirm the ASP equipment is connected correctly, power up the equipment and log on, describe the main map window areas, set system date and time, operate the control drop down menus, configure and operate the communications editor window, operate the tools drop down menus, react to Built In Test (BIT) PMFL messages, carry out locating drills on the MMI and carry out sound adjustment drills on the MMI.
- h. **Operate the Interactive Electronic Technical Publication (IETP).** State the hardware requirements for the IETP, install the IETP onto a computer and navigate each section of the IETP.
- i. **State the organisation of the UK divisions down to brigade level.** State the organisation of the British divisions to brigade level.

- j. **State the outline organisation and weapon characteristics of Land Command artillery units.** State the organisation, equipment capabilities and deployment criteria of British artillery regiments.
 - k. **State the outline organisation and role of a Battle Group (BG).** State the outline organisation and role within a BG.
 - l. **Analyse the organisation and function of 1st Intelligence, Surveillance and Reconnaissance Brigade (1 ISR Bde).** State the organisation and the role of 1 ISR Bde.
 - m. **Examine the Intelligence Preparation of the Environment (IPE) and targeting cycle.** Identify the links between IPE and targeting, and identify the targeting cycle.
 - n. **Use fire discipline words and phrases.** State the definition and aim of fire discipline, identify the observer's call for fire, identify the reports and requests and identify the aim of target numbers.
 - o. **Transmit and receive fire orders up to unit level.** Transmit, receive and relay field/depth fire orders, record target records and complete entries into the logbook.
 - p. **Apply the principles of Electronic Warfare (EW).** State the principles of Electronic Support Measures (ESM), list the principles of Electronic Counter Measures (ECM) and carry out ESM.
 - q. **State the principles of antenna theory.** Describe the principles of propagation theory and identify, select and site the appropriate antenna to achieve desired performance.
 - r. **Control the health and safety precautions for the ASP equipment.** Explain the hazards identified in the SRg equipment risk assessment, explain the restrictions identified in the SRg equipment risk assessment and state the hazards associate to unit scaling.
 - s. **Explain the survey requirements for ASP equipment.** Explain the requirements and uses of back-up survey, explain the meaning of associated survey words and phrases, state the accuracy of the orientation methods and the survey states, state the accuracy of linear measurement methods and extract bearings from BP cards and PBL's.
- QUALIFICATION:** Once qualified the trainee will be able to command a sensor post party and work in the SRg Command Post (CP):
- a. ASP System Set Up.
 - b. Tactical Deployment.
 - c. Location Mission.
 - d. Fire Control Mission.
- PRE-COURSE STANDARDS:** Students must have/be:
- a. Substantive Lance Bombardier (OR 3).
 - b. Sub Operator

AIM. The aim of the course is to develop the skills and knowledge of selected soldiers in order to train them to perform the tasks of a Gunner Sound Ranging Detachment Commander (DC) Level 4.

SCHEDULE: There is one course per year (course duration 14 days). The course covers sixteen main areas:

a. **Carry out a detailed recce and issue orders.** Carry out a detailed recce of a SRg base line, Carry out a detailed recce of the Command Post (CP) location, produce a local plan diagram for each location and prepare and deliver formal written orders for an Advance Sound-ranging Programme (ASP) troop.

b. **Supervise a tactical deployment of a SRg troop.** Interpreting deployment orders, identifying the threat, applying the principles of camouflage and concealment, interpreting ASP deployment procedures and administering an ASP detachment in the field.

c. **Maintain a tactical map.** Set up a tactical map with the relevant conventional map marking boundaries and symbols annotated, state how information is recorded on a map and maintain and update a tactical map according to int-reps.

d. **Carry out the duties of the Command Post Officer (CPO).** Explain the organisation and duties of sound ranging command post personnel, explain effective deployment options and limitations for the ASP equipment, plot areas of coverage, supervise the Man Machine Interface (MMI) operator, supervise the command post signaller, evaluate location data and allocate an assessment of accuracy; finally, conduct sound adjustment missions.

e. **Operate the Map Interface Deployment Aid System (MIDAS).** State the health and safety consideration when operating the MIDAS, identify the hardware, ports, indicators and CES items, power up the MIDAS and log on, display the interactive electronic technical publication, operate the deployment aid, operate the map converter, log out and shut down.

f. **Supervise servicing and maintenance tasks.** Supervise all servicing tasks, identify unserviceable equipment, complete the relevant forms, documentation and identify the contractor logistical support chain.

g. **State the capabilities of Surveillance Target Acquisition (STA) assets.** Identify the role, capabilities and limitations of divisional and brigade STA assets.

h. **State the employment of British artillery regiments.** State the employment of British artillery regiments.

i. **State the role and organisation of 1 and 3 (UK) Divisions.** State the organisation and role of 1 and 3 (UK) Divisions down to brigade level, state the framework of operations, list the brigade concept of operations and state brigade offensive support procedures.

j. **Examine the Intelligence Preparation of the Environment (IPE) and Targeting process.** Examine the

targeting cycle, identify the core functions of targeting, explain how ASP is employed as part of the targeting process and examine the IPE.

k. **Identify unit nets and communication paths up to divisional level.** State the radios within the brigade/division complex, list the radio nets manned by each vehicle within the complex and Identify net levels and types.

l. **Supervise the use of Secure Orders Cards (SOCs).** Supervise the encoding and decoding of SOC's and supervise the encoding and decoding of reports and returns.

m. **Carry out crypto management in the field.** State the importance of the handling of crypto and carry out security procedures in the field.

n. **Transmit and receive fire orders above unit level.** Implement fire discipline words and phrases using voice procedures within fire missions relevant to sound adjustment, identify the format of target records and define artillery regrouping orders.



o. **Supervise health and safety precautions.** Explain the health and safety precautions that are to be observed when operating the SRg equipment and explain the hazards associated with the AFV 43 series appropriate to unit scaling.

p. **Explain the basic theory behind the operation of the ASP system.** Explain acoustic propagation across different terrain, explain how met conditions affect acoustic propagation, explain how the system locates activities and calculates confidence levels and explain how false locations are produced and what can be done to minimise this effect.

QUALIFICATION: Once qualified the soldier will be able to perform the tasks of a Gunner Sound Ranging Detachment Commander (DC):

- a. Apply Sound-ranging Theory.
- b. Manage Tactical Deployment.
- c. Detail recce and issue orders.
- d. Counter-fires Planning.

PRE-COURSE STANDARDS: Students must have/be:

- a. Substantive Bombardier (OR 4).
- b. 2IC qualified

AIM. The aim of the course is to train and qualify selected Lightweight Counter-Mortar Radar (LCMR) Level operator soldiers to perform the duties and tasks of a Surveillance Target Acquisition (STA) Light Detachment Operator.

SCHEDULE: There is one course per year (duration 2 weeks). Training objectives cover eight main areas:

a. **Deploy the LCMR.** Conduct a Complete Equipment Schedule (CES) check, prepare the Lightweight Counter Mortar Radar (LCMR) and generator for transport, conduct tactical movement of the LCMR, site the LCMR, understand how to deconflict with adjacent radars and understand how to conduct disablement drills.

b. **Operate the LCMR.** Operate the laptop, use tool suite, conduct reporting with the LCMR, understand how to conduct Electronic Warfare (EW) procedures and monitor levelling and orientation.

c. **Bring the LCMR out of action.** Cease locating and prepare the LCMR and generator for re-deployment.

d. **Maintain the LCMR.** Use Army Equipment Support Publications (AESP's) information, conduct fault finding, conduct established trouble shooting procedures from documentation, review and complete documentation, conduct level 1 repairs and conduct scheduled maintenance in accordance with published maintenance schedule.

e. **Supervise the operation of the generators associated to LCMR.** Supervise start up procedures, supervise re-fuelling procedures, supervise close down procedures, assist in operator maintenance, conduct Level 1 repairs and, review and complete generator documentation.

f. **Conduct survey drills with in-service Global Positioning System (GPS) equipment.** Operate in-service GPS equipment, conduct GPS point to point, conduct Azimuth determination and achieve a state B fix.

g. **Conduct surveillance.** Aid situational awareness.

h. **Organisation and deployment.** Understand how to identify and operate with All Arms organisations at Company and Battlegroup level.

QUALIFICATION: Once qualified the trainee will be able to perform duties and tasks of a Surveillance Target Acquisition (STA) Light Detachment Operator.

a. STA Level 2ic.

PRE-COURSE STANDARDS: Students must have/be:

a. Substantive Lance Bombardier.

b. Surveillance Target Acquisition background.



LCMR

AIM. The aim of the course is to train and qualify selected Lightweight Counter-Mortar Radar (LCMR) 2ic soldiers to perform the duties and tasks of a Surveillance Target Acquisition (STA) Detachment Commander (DC). The course covers all elements relating to commanding the equipment and the detachment personnel themselves. There is an added element of teaching on Level DC as they will become qualified to instruct Level operator courses back at their Regiments once they gain this qualification.

SCHEDULE: There is one course per year (duration 4 weeks). Training objectives cover ten main areas:

- a. **Manage survey.** Calibrate and use the prismatic compass and site the LCMR.
- b. **Manage LCMR deployment.** Maintain LCMR readiness states, supervise the LCMR detachment, advise on cross-cuing procedures in line with STA Organisation, Deployment and Operating Procedures (ODOPs) and utilise software applications.
- c. **Conduct recce.** Receive and interpret orders, provide ground appreciation to the planning of operations, identify a suitable deployment area, conduct a detailed recce, give orders to the detachment and integrate in to the local defence plan.
- d. **Establish communications network.** Set up the detachment communications and establish routine.
- e. **Conduct communication procedures.** Manage and control crypto equipment and material, select and apply unit nets and paths, transmit and receive STA orders and procedures by radio and conduct electronic warfare.

f. **Contribute to the intelligence cycle.** Conduct briefings, apply mission and collect information.

g. **Manage the detachment and equipment.** Manage the detachment, apply equipment care policy to all LCMR detachment equipment, assist and advise the Intelligence, Surveillance, Target Acquisition, and Reconnaissance (ISTAR) Tac Commander, conduct and co-ordinate detachment training.

h. **Conduct Intelligence Preparation of the Battlefield (IPE).** Maintain a tactical map, determine how STA equipment is employed in the targeting process, apply the core functions of targeting, and examine the IPE.

i. **Supervise and conduct maintenance.** Manage detachment health and safety, manage detachment maintenance, supervise scheduled maintenance, complete and review all equipment documentation and reports and supervise maintenance tasks.

j. **Organisation and Deployment.** Advise on unit STA equipment capability as appropriate, advise on unit STA equipment characteristics and limitations and implement regimental Standard Operating Procedures (SOPs).

QUALIFICATION: Once qualified the trainee will be able to perform duties and tasks of a STA Detachment Commander:

- a. STA Level DC.

PRE-COURSE STANDARDS: Students must have/be:

- a. Substantive Bombardier or above.
- b. STA Level 2ic.



LCMR



PUMA

AIM: The aim of this course is to develop the knowledge and skills of selected personnel in the ground school elements of S2 RPAS pilotage prior to attending the S2 RPAS platform flying module (AVUAS WASP/PUMA Pilot). Completion of this course is a pre-requisite for further S2 RPAS Pilot Training. The overarching topics covered during this course are as follows, but please note that topics are UK Regulation specific and UK Platform / Orders specific:

a. Apply air law to S2 RPAS operating procedures and airmanship.

- b. Describe navigation charts.
- c. Plan navigation for RPAS mission
- d. Conduct RPAS mission planning.

SCHEDULE: The course duration is 4 days

QUALIFICATION: S2 RPAS Ground School

PRE-COURSE STANDARDS:

- a. Security Clearance: SC.
- b. Rank Minimum: Substantive OR3 – OR4.

S2 RPAS AVUAS WASP/PUMA PILOT MODULE

AIM: The aim of this course is to develop the knowledge and skills of selected personnel to carry out duties of an S2 RPAS Pilot within a RPAS environment. This training module is currently specific to the in-service S2 RPAS Platform of the Field Army – currently AVUAS PUMA and WASP.

SCHEDULE: The course duration is 10 days

QUALIFICATION: S2 RPAS Certificate of Qualification on Type (CQT)

PRE-COURSE STANDARDS:

- a. Security Clearance. SC.
- b. Rank Minimum. Substantive OR3 – OR4.
- c. Successful completion of S2 RPAS Ground School Module within the last 3 months.
- b. Flying Medical. All trainees are required to have a UK RPAS Pilot medical, as well as completed Human Factors Training.





WASP

AIM. The aim of this course is to develop the knowledge and skills of selected RA personnel to carry out duties of an S2 RPAS Commander within a RPAS environment. The overarching topics covered during this course are as follows,

- a. Interpret and deliver S2 RPAS orders.
- b. Recce and site selection for S2 RPAS detachments.
- c. Methods of authorising flying activity / Authorise flying activity.
- d. Manage maintenance and logbook documentation.
- e. Management of crew rest periods (CRP).
- f. Create briefing packs and Managing S2 RPAS operation.
- g. Understand the impact of counter RPAS and Arty Target Missions.
- h. Understand the S2 RPAS governance structure.
- i. Payload Operation

SCHEDULE: The course duration is 9 days and involves a period deployed in 'Field Conditions'

PRE-COURSE STANDARDS:

- a. S2 RPAS Commander. SC.
- b. Rank Minimum. LBdr.





WATCHKEEPER

AIM. The aim of the Ground School Module 1 G60A course is to train selected soldiers/officers within the Remotely Piloted Air System (RPAS) Community the necessary skills and to provide the required knowledge to enable the soldier or officer to perform the job tasks. On successful completion of the training course the soldier or officer will be employed by the chain of command in accordance with their qualification.

SCHEDULE: There are two courses per year (duration 2 weeks). The Training objectives cover ten main areas:

- a. Air Law.
- b. RPAS Operational Procedures.
- c. Plan Missions.
- d. Evaluate Meteorological Information.
- e. The Principles of Flight to RPAS Operations.
- f. The Knowledge of Aircraft System Components.
- g. Complete All Relevant F700 Series.
- h. RPAS Specific Additional Tasks.
- i. Airspace Management.

PRE-COURSE STANDARDS: Students must have/be:

- a. None pilot - min rank LBdr.
- b. Potential pilot – min rank LBdr and Pilot RPAS Aptitude Test (Cranwell). Int'l?
- c. Completed Human Factors foundation training.
- d. Potential pilot – Completed RA2135 Aviation Medical Training.









RSA Defence Engagement
The Royal School of Artillery
Royal Artillery Barracks
Larkhill
SALISBURY
Wiltshire
SP4 8QT

Tel: +44 (0) 1980 84 5012
email: deborah.morrison850@mod.gov.uk

For further information: <https://www.army.mod.uk/who-we-are/our-schools-and-colleges/artillery/>