Training Opportunities at
The Royal School of Artillery
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 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.

Colonel J B Musgrave
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 Army Recruiting and Training Division (ARTD). 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 to some 4,000 students (regular and reserve) a year 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 Gunnery Staff, the deep technical experts of the RA. Officers qualify from an 8 month technical course and Non Commissioned Officers qualify from a year long technical course. These instructor courses are also taught at RSA.
### CLOSE SUPPORT WING

#### Gunnery Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Duration</th>
<th>Rank Range</th>
<th>Course Name</th>
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</tr>
</thead>
<tbody>
<tr>
<td>G13</td>
<td>46 WEEKS</td>
<td>OF2 - OF3</td>
<td>Instructor Gunnery Course Close Support (IGC CS)</td>
<td>10</td>
</tr>
<tr>
<td>G02</td>
<td>47 WEEKS</td>
<td>OR7 - OR8</td>
<td>Gunnery Career Course Close Support (GCC CS)</td>
<td>11</td>
</tr>
</tbody>
</table>

#### Guns and Ammunition Branch

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Duration</th>
<th>Rank Range</th>
<th>Course Name</th>
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</tr>
</thead>
<tbody>
<tr>
<td>G09A</td>
<td>5 WEEKS</td>
<td>OR2 - OR3</td>
<td>L118 Light Gun Advanced Operator</td>
<td>12</td>
</tr>
<tr>
<td>G09</td>
<td>5 WEEKS</td>
<td>OR3 - OR4</td>
<td>L118 Light Gun Detachment Commander</td>
<td>12</td>
</tr>
</tbody>
</table>

#### Reconnaissance and Command Post Branch

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Duration</th>
<th>Rank Range</th>
<th>Course Name</th>
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</thead>
<tbody>
<tr>
<td>G0S</td>
<td>5 WEEKS</td>
<td>OR7 - OR2</td>
<td>Gun Position Officer (GPO)</td>
<td>13</td>
</tr>
<tr>
<td>G05D</td>
<td>5 WEEKS</td>
<td>OR6 - OR7</td>
<td>Assistant Recce Officer (ARO)</td>
<td>13</td>
</tr>
<tr>
<td>C15</td>
<td>4 WEEKS</td>
<td></td>
<td>Command Post Officer - Ground Based Air Defence (CPO GBAD)</td>
<td>14</td>
</tr>
<tr>
<td>C27C</td>
<td>1 WEEK</td>
<td></td>
<td>Gunner Command System (surface to surface) Command Post Advanced Operator</td>
<td>15</td>
</tr>
<tr>
<td>C27D</td>
<td>8 WEEKS</td>
<td></td>
<td>Gunner Command System (surface to surface) Command Post Detachment Commander</td>
<td>15</td>
</tr>
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</table>

#### Precision Fires Branch

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Duration</th>
<th>Rank Range</th>
<th>Course Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>G33</td>
<td>5 WEEKS</td>
<td>OR4 - OR6</td>
<td>Multiple Launch Rocket System (MLRS) Detachment Commander</td>
<td>16</td>
</tr>
<tr>
<td>G34</td>
<td>4 WEEKS</td>
<td>OR3 - OR4</td>
<td>Multiple Launch Rocket System (MLRS) Advanced Operator</td>
<td>17</td>
</tr>
<tr>
<td>G35</td>
<td>5 WEEKS</td>
<td>OR7 - OR2</td>
<td>Multiple Launch Rocket System (MLRS) Command Post Officer and Battery Reconnaissance Officer</td>
<td>17</td>
</tr>
</tbody>
</table>

#### Joint Fires Branch

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Duration</th>
<th>Rank Range</th>
<th>Course Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>T01A</td>
<td>2 WEEKS</td>
<td>OF2 - OF3</td>
<td>Battery Commander Close Support - BC(CS)</td>
<td>18</td>
</tr>
<tr>
<td>T02A</td>
<td>11 WEEKS</td>
<td>OF1 - OF3</td>
<td>Fire Support Team Commander (FST Comd)</td>
<td>18</td>
</tr>
<tr>
<td>T09E</td>
<td>5 WEEKS</td>
<td>OR4 - OR7</td>
<td>Fire Support Team Commander (BC’s Assistant)</td>
<td>19</td>
</tr>
<tr>
<td>T09D</td>
<td>4 WEEKS</td>
<td>OR4 - OR6</td>
<td>Fire Support Team Commander (Detachment Commander)</td>
<td>19</td>
</tr>
<tr>
<td>T09A</td>
<td>8 WEEKS</td>
<td>OR3 - OR6</td>
<td>Fire Support Team Commander (Dis-mounted) Advanced Operator</td>
<td>20</td>
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### COMMAND & TACTICS WING

#### Young Officers' Branch

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Duration</th>
<th>Rank Range</th>
<th>Course Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>YO1</td>
<td>6 WEEKS</td>
<td>OF1</td>
<td>Young Officers’ Common (YO)</td>
<td>20</td>
</tr>
<tr>
<td>Y01A</td>
<td>8 WEEKS</td>
<td>OF1</td>
<td>YOs’ Command Post Officer/Troop Comd, Close Support (CS)</td>
<td>21</td>
</tr>
<tr>
<td>Y01B</td>
<td>8 WEEKS</td>
<td>OF1</td>
<td>YOs’ Troop Commander Ground Based Air Defence (GBAD)</td>
<td>21</td>
</tr>
<tr>
<td>Y01E</td>
<td>8 WEEKS</td>
<td>OF1</td>
<td>YOs’ Command Post Officer/Troop Comd Multiple Launch Rocket System (MLRS)</td>
<td>22</td>
</tr>
<tr>
<td>Y01H</td>
<td>8 WEEKS</td>
<td>OF1</td>
<td>YOs’ Intelligence, Surveillance and Reconnaissance (ISR)</td>
<td>22</td>
</tr>
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</table>

#### Targeting Branch

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Duration</th>
<th>Rank Range</th>
<th>Course Name</th>
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</tr>
</thead>
<tbody>
<tr>
<td>T13C</td>
<td>1 WEEK</td>
<td>OR4 - OF4</td>
<td>Collateral Damage Estimation (CDE) Methodology Course</td>
<td>23</td>
</tr>
<tr>
<td>T13D</td>
<td>2.5 DAYS</td>
<td>OR4 - OF6</td>
<td>Targeting Acquaint Course (TAC)</td>
<td>23</td>
</tr>
<tr>
<td>T13F</td>
<td>3 WEEKS</td>
<td>OR4 - OF4</td>
<td>Full Spectrum Targeting Course (FSpecT)</td>
<td>24</td>
</tr>
<tr>
<td>T21</td>
<td>1 WEEK</td>
<td>OR7 - OF4</td>
<td>Joint Battlespace Management Course (JBMC)</td>
<td>25</td>
</tr>
<tr>
<td>tbc</td>
<td>1 WEEK</td>
<td></td>
<td>Royal Artillery Staff Officers Course</td>
<td>26</td>
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</table>

#### Artillery Command Systems Branch

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Duration</th>
<th>Rank Range</th>
<th>Course Name</th>
<th>Page</th>
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</thead>
<tbody>
<tr>
<td>C15</td>
<td>4 WEEKS</td>
<td>OF6 - OF2</td>
<td>Air Defence Command Post Officer (GBAD CPO)</td>
<td>27</td>
</tr>
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Courses List - Training Year 2017/18

**ISTAR WING**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Duration</th>
<th>Rank Range</th>
<th>Course Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>G13A</td>
<td>46 WEEKS</td>
<td>OF2 - OF3</td>
<td>Instructor Gunnery Course (ISTAR GBAD)</td>
<td>28</td>
</tr>
<tr>
<td>G30</td>
<td>47 WEEKS</td>
<td>OR7 - OR8</td>
<td>Gunnery Career Course (ISTAR GBAD)</td>
<td>29</td>
</tr>
</tbody>
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**Surveillance Target Acquisition & Reconnaissance Branch**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Duration</th>
<th>Rank Range</th>
<th>Course Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>TO1E</td>
<td>2 WEEKS</td>
<td></td>
<td>Battery Commander (ISTAR)</td>
<td>30</td>
</tr>
<tr>
<td>GS1E</td>
<td>4 WEEKS</td>
<td></td>
<td>Mini Unmanned Air Systems (MUAS) Advanced Operator</td>
<td>31</td>
</tr>
<tr>
<td>GS1D</td>
<td>2 WEEKS</td>
<td></td>
<td>Mini Unmanned Air System L4 (MUAS) Commander</td>
<td>31</td>
</tr>
<tr>
<td>G40</td>
<td>4 WEEKS</td>
<td></td>
<td>Gunner Sound Ranging (SRg) Advanced Operator</td>
<td>32</td>
</tr>
<tr>
<td>G39</td>
<td>3 WEEKS</td>
<td></td>
<td>Gunner Sound Ranging (SRg) Detachment Commander</td>
<td>33</td>
</tr>
<tr>
<td>G56A</td>
<td>4 WEEKS</td>
<td></td>
<td>Mobile Artillery Monitoring Battlefield Radar (MAMBA) Detachment Commander</td>
<td>34</td>
</tr>
<tr>
<td>G55A</td>
<td>17 DAYS</td>
<td></td>
<td>Mobile Artillery Monitoring Battlefield Radar (MAMBA) Advanced Operator</td>
<td>35</td>
</tr>
<tr>
<td>G56E</td>
<td>4 WEEKS</td>
<td></td>
<td>Lightweight Counter Mortar (LCMR) Advanced Operator</td>
<td>35</td>
</tr>
<tr>
<td>G56F</td>
<td>3 WEEKS</td>
<td></td>
<td>Lightweight Counter Mortar (LCMR) Detachment Commander</td>
<td>36</td>
</tr>
</tbody>
</table>

**GBAD WING**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Duration</th>
<th>Rank Range</th>
<th>Course Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>T01C</td>
<td>2 WEEKS</td>
<td></td>
<td>Battery Commander Lightweight Multiple Launcher (LML) Basic Operator</td>
<td>37</td>
</tr>
<tr>
<td>A32Z</td>
<td>4 WEEKS</td>
<td></td>
<td>High Velocity Missile Self Propelled (SP) Tactical Controller</td>
<td>38</td>
</tr>
<tr>
<td>A39A</td>
<td>4 WEEKS</td>
<td></td>
<td>High Velocity Missile Self Propelled (SP) Detachment Commander</td>
<td>38</td>
</tr>
<tr>
<td>A39</td>
<td>4 WEEKS</td>
<td></td>
<td>High Velocity Missile Lightweight Multiple Launcher (LML) Tactical Controller</td>
<td>39</td>
</tr>
<tr>
<td>A46A</td>
<td>4 WEEKS</td>
<td></td>
<td>High Velocity Missile Lightweight Multiple Launcher (LML) Detachment Commander</td>
<td>39</td>
</tr>
<tr>
<td>A42Z</td>
<td>3 WEEKS</td>
<td></td>
<td>High Velocity Missile (Self Propelled) Fire Group Commander</td>
<td>40</td>
</tr>
<tr>
<td>A46</td>
<td>4 WEEKS</td>
<td></td>
<td>High Velocity Missile Lightweight Multiple Launcher (LML) Fire Group Commander</td>
<td>41</td>
</tr>
<tr>
<td>A20</td>
<td>2 WEEKS</td>
<td></td>
<td>Rapier FSC Detachment Commander</td>
<td>42</td>
</tr>
<tr>
<td>A21</td>
<td>18 DAYS</td>
<td></td>
<td>Rapier FSC Tactical Controller</td>
<td>42</td>
</tr>
<tr>
<td>A23Z</td>
<td>1 WEEK</td>
<td></td>
<td>Rapier FSC Detachment Engagement Trainer (DET) Manager</td>
<td>43</td>
</tr>
</tbody>
</table>

**BESPOKE TRAINING**

The Royal School of Artillery offers many diverse training packages in order to meet specific customer requirements. The main individual training placements utilise spare capacity on British artillery courses run at the RSA in Larkhill. However, we also offer Short Term Training Teams (STTT). These STTT consist of gunner subject matter experts who deliver bespoke, training packages specifically tailored to meet the customer requirements. The teams deliver training in the host country. The benefit of such training packages is that they are more cost effective as the number of students receiving the training is greatly increased.

Where capacity and available manpower exists, The Royal School of Artillery also offers training courses at Larkhill for international students where the British training programme has been adapted and amended to suit the international customer; thereby making the training delivered more relevant and pertinent.

At the School we pride ourselves on the quality of our instructors whilst maintaining the highest standards of currency and competences of both our instructors and instruction.

The Royal School of Artillery strives to be as flexible as possible and welcomes all training opportunities to work closely with our international counterparts.
Joining Standards and Information for International Students attending training at the Royal School of Artillery

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.

<table>
<thead>
<tr>
<th>Joining Standard and Information</th>
<th>Achieved</th>
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<tbody>
<tr>
<td>Candidates training at The Royal School of Artillery must be in good health and physically fit and robust enough to complete the course.</td>
<td></td>
</tr>
<tr>
<td>In order to gain maximum benefit from British artillery training, international students will require a defined level of English. Competent/Modest User of English.</td>
<td></td>
</tr>
<tr>
<td>• International English Language Testing System (IELTS). Standard required: Level 5.0</td>
<td></td>
</tr>
<tr>
<td>• NATO Standardisation Agency (STANAG). Standard required: Level 2</td>
<td></td>
</tr>
<tr>
<td>• Common European Framework (CEP). Standard required: Level B1</td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>There may be some courses which require multiple entry visas and this will be made clear in the LOTA and JI's.</td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>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 bars certain food products.</td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>Postal address for The Royal School of Artillery is:</td>
<td></td>
</tr>
<tr>
<td>Royal Artillery Barracks, Larkhill, SALISBURY, Wiltshire. SP4 8QT</td>
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Gunnery Staff Officers’ Course  
Close Support Wing

Purpose of Attendance/Course Aim. The Gunnery Staff Officers’ Course is the premier course for officers within the Royal Artillery. It delivers in-depth technical and tactical employment training in order to qualify selected officers as Gunnery Staff Officers and Instructors in Gunnery. Experienced officers (Captains - Major) who possess the necessary expertise and technical acumen are selected and developed over an 11 month period into subject matter experts who fill demanding instructional, acquisition, command and staff appointments.

Description. The course focuses on the development of technical, doctrinal and tactical knowledge and the honing of practical artillery skills. All aspects of modern artillery systems and their enabling organisations and processes are covered in a classroom environment and confirmed and tested on selected live-fire exercises. Gunnery Staff Officers become the experts in all aspects of exercise and range safety allowing them to create and manage artillery ranges in accordance with current safety regulations. Students gain the coveted Full Spectrum Targeting Course qualification and have an introduction to Joint Battlespace Management.

Students will have the option to further develop their Technical understanding with the Cranfield University delivered technology modules and the attainment of a Post Graduate Certificate in Gun Systems Design (with the opportunity to complete the full MSc post the course). Instructional skills are developed through the attainment of the Level 4 Diploma in Training and Education, and Project Management is introduced via the Association for Project Managers Professional (APMP) project management qualification. On-site education is complimented with educational visits to leading Defence Industry works, Battlefield studies and visits to the UK’s naval and air offensive support contributors.

On successful completion of the course, students are accredited with the Instructor in Gunnery (IG) qualification denoting membership of the Gunnery Staff. The Gunnery Staff Officers’ Course produces officers with an in-depth technical understanding of artillery capabilities, combined with tactical application of Offensive Support in the likely future battlespace. Graduates will have the a well-honed ability to instruct, assure and advise the Chain of Command and to positively influence key fields of acquisition, safety and capability development.

Course Vacancies. The annual course is 46 weeks long and split into 3 distinct terms.

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Gunnery Career Course  
Close Support Wing

Purpose of Attendance/Course Aim. The Gunnery Career Course (GCC) is the premier course for Royal Artillery Senior Non-Commissioned Officers (SNCOs). The aim of the course is to develop selected SNCOs who have completed at least 12 years in their particular trade and have been graded as being the top 10% of practitioners in their specific Close Support specialty. Successful candidates gain the Qualified Gunnery Instructor (QGI) qualification denoting membership of the Gunnery Staff.

This qualification allows them to fill the highest grade Gunnery Staff Instructional and staff appointments.

Description. The course focuses all aspects of field artillery from design to tactics and deployment. In-class and practical learning is reinforced with studies held at the Royal Military College of Science, where students study the science and engineering behind artillery pieces, the design and construct of projectiles their fuzes and associated propellants. Students investigate the current and emerging technologies related to gun, shell and propellant design and design and produce directed work on the subjects. Visits to UK Defence Industry companies – focusing on manufacture, technological development and military acquisition – expose students to artillery systems procurement and the manufacturing processes. Artillery Command, Control, Communication and Information systems and procedures are covered in depth and practiced both in the simulated and field environment. UK Tactics and Doctrine are considered, centering on the employment of field artillery and the reconnaissance and deployment of the artillery system. Wider exposure to all Royal Artillery capabilities, for example Precision Fires and Battlefield Radar, is given. Student methods of instruction are refined via the level 3 Diploma in Training and Education and design skills are taught, and practiced, with the Defence System Approach to Training qualification. Gun Position Safety and Range Planning are covered in depth. Command Leadership and Management modules are studied and students are given the opportunity to gain on the job experience, as SNCO gunnery instructors, in their own specialty. The knowledge gained over the course is tested throughout and the course culminates with a confirmation live exercise which is designed, planned and delivered by the students.

The Gunnery Careers Course produces high-grade SNCOs with a superior understanding of Close Support artillery. Graduates are assured and effective instructors with the knowledge to advise the Chain of Command on the technical employment of Close Support Artillery.

Course Vacancies. The annual course is 47 weeks long and split into 3 distinct terms.
Purpose of Attendance/Course Aim. The Gunner Light Gun Level 3 Course instructs, and will qualify, the student to assist the Detachment Commander in all aspects of the command and husbandry of the L118 Light Gun and associated equipment and stores. Successful candidates will be qualified to step-up and act as the Detachment Commander, controlling the detachment during live-firing.

Description. The course teaches control and safety of the detachment and equipment during live firing and the maintenance and servicing of the gun. To ensure the complete understanding of the system, students are trained in the duties of Detachment Commander in his absence. Tactical deployment and gun position procedures are practiced, and deployments and tactical considerations, in all environments and possible deployment scenarios, are studied. Successful candidates gain the qualification of Gunner Light Gun L118 Level 3 Controller (Detachment 2i/c).

In-class tuition is reinforced with practical (hands-on the equipment) elements and live-fire exercises. Live-fire exercises will incorporate live-fire missions - from basic indirect missions through to direct-fire and emergency smoke withdrawals - urban deployments and non-standard deployments, such as "Pistol Gun", "Sniping Gun" and "Quick Actions".

Course Vacancies. Gunner Light Gun Level 3 Course is a five-week course conducted bi-annually by the Guns and Ammunition Branch of the Royal School of Artillery.

Pre-course Standards. Students must have/be Gunner Light L118 Level 2 or equivalent and be a substantive Bombadier or equivalent.

Purpose of Attendance/Course Aim. The Gunner Light Gun Level 4 Course instructs, and will qualify, the student in all aspects of the command and husbandry of the L118 Light Gun and associated equipment and stores. Successful candidates will be qualified to command and oversee the operating detachment in every phase of employment of the gun.

Description. The course teaches control and safety of the detachment and equipment during live firing and the maintenance and servicing of the gun require to ensure availability. To ensure the complete understanding of the system, students are trained in the duties of Gun Line Section Commander and the gun position reconnaissance procedures. Tactical deployments including Quick Actions and gun position procedures are practiced. Deployments and tactical considerations, in all environments and possible deployment scenarios, are studied. Successful candidates gain the qualification of Gunner Light Gun L118 Level 4 Detachment Commander and can be employed in that role.

In-class tuition is reinforced with practical (hands-on the equipment) elements and live-fire exercises. Live-fire exercises will incorporate live-fire missions - from basic indirect missions through to direct-fire and emergency smoke withdrawals - urban deployments and non-standard deployments, such as "Pistol Gun", "Sniping Gun" and "Quick Actions".

Course Vacancies. Gunner Light Gun Level 4 Course is a five-week course conducted bi-annually by the Guns and Ammunition Branch of the Royal School of Artillery.

Pre-course Standards. Students must have/be Gunner Light L118 Level 2 or equivalent and be a substantive Bombadier or equivalent.

Purpose of Attendance/Course Aim. The course aims to develop the requisite skills and knowledge of selected officers in order that they may perform the tasks of a Gun Position Officer.

Description. Training Objectives cover the areas detailed below:

a. The Recce Process. Captured within the twelve stages of reconnaissance, students are taught to understand the sequence and practice deployment procedures with both variants of close support artillery. Operational time constraints and factors affecting deployments at night are also experienced.

b. Mapping and GPS. Theory lessons covering both topics. Students practice the application of carrying survey without GPS to enable platform fixation within doctrinal parameters.

c. Training Support. The delivery and evaluation of training is conducted in accordance with the Defence Systems Approach to Training (DSAT).

Course Vacancies. The Gun Position Officer course is a five-week course conducted bi-annually.

Pre-course Standards. Students must:

a. Be commissioned. (UK students attend this course in their first 24 month assignment.)

b. Have completed training as a Close Support Command Post Officer. Deployed experience in-role is essential.

Purpose of Attendance/Course Aim. The course aims to develop the requisite skills and knowledge of selected SNCOs in order that they may perform the tasks of an Assistant Recce Officer.

Description. Training Objectives cover the areas detailed below:

a. The Recce Process. Captured within the twelve stages of reconnaissance, students are taught to understand the sequence and practice deployment procedures with both variants of close support artillery. Operational time constraints and factors affecting deployments at night are also experienced.

b. Mapping and GPS. Theory lessons covering both topics. Students practice the application of carrying survey without GPS to enable platform fixation within doctrinal parameters.

c. Training Support. The delivery and evaluation of training is conducted in accordance with the Defence Systems Approach to Training (DSAT).

Course Vacancies. The Assistant Recce Officer course is a five-week course conducted bi-annually.

Pre-course Standards. Students must:

a. Have progressed to SNCO rank having been employed on the Gun Position for the majority of their career.

b. Have completed training as a Close Support Gun Detachment Commander. (UK students ordinarily attend this course having been employed as Gun Line Section Commanders).
Purpose of Attendance/Course Aim. The aim of the GBAD CPO course is to instruct the students how to plan, implement and co-ordinate the effective employment and deployment of GBAD weapon systems as laid down in UK doctrine.

Description. Training Objectives cover the areas detailed below:

a. Integrate GBAD into the Joint AD environment. The organisation, roles and tactical employment of UK Ground Based Air Defence (GBAD) artillery. Identify the key components of the Joint Air Defence 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. Conduct Air Intelligent Preparation Environment (IPE) and GBAD Estimate. Theory and practical lessons utilising current Air threats against the GBAD Estimate and Air Intelligent Preparation of the Environment (Air IPE).

c. Plan, Co-ordinate, Employ and Deploy UK GBAD. Primarily focused on UK deployment templates for each Weapon System and their role within the Layered Air Defence process.

Purpose of Attendance/Course Aim. Upon successful completion of the course qualified soldiers will be able to act as the ZIC of a Command Post Detachment. They will also be able to conduct supervisory duties in the absence of the Detachment Commander for military operations, training and administration. On successful completion of the course, students will be awarded the competence of Gunner CS Applications Specialist L4.

Description. Training objectives cover four main areas.

a. Conduct Recce, Deployment and Survey procedures.

b. CP DC Task and Responsibilities.

c. The production of firing solutions (FCBISA, FCA & MPOD).

d. Conduct Unit and Sub-Unit exercises (planning, preparation and delivery of L2 course modules).

Course Vacancies. There are two courses per year (duration 8 weeks).

Pre-course Standards. Students must be:

a. Substantive Bombardier.

b. Gnr CS Apps Spec L3.
Multiple Launch Rocket System (MLRS) Detachment Commander
Preparation: MLRS Branch, Royal Artillery

Purpose of Attendance/Course Aim. The course is specifically designed to train Junior Non-Commissioned Officers (JNCOs) and Senior Non-Commissioned Officers (SNCOs) to competently command an MLRS detachment, manage the detachment and its equipment in the field and in barracks, and conduct detachment continuation training.

Description. The instruction on the five week MLRS Level 4 course is delivered by a mixture of classroom based training and a number of days deployed in the field. The course takes advantage of different technologies such as online training through the Defence Learning Environment and classroom based simulation which also includes three MLRS Cab simulators which are connected to an immersive virtual training environment to enhance the students learning experience. Training objectives cover six main areas:

a. Servicing and Maintenance. Conduct servicing and maintenance of the MLRS vehicle, fire control system and ancillary items.

b. Deployment. Command the MLRS in support of conventional war fighting and counter insurgency operations. This includes understanding the threat, Armoured Fighting Vehicle (AFV) navigation, AFV tactical movement, reconnaissance, standard deployments in the field and non-standard deployments such as urban, artillery raids and firing off the line of march.

c. Fire Mission Procedures. Command the MLRS detachment during simulated Guided MLRS-Unitary (GMLRS-U) and AT2 SCATMIN (Anti-Tank Scatatable Mine) fire missions and fire plans. Students will also conduct live firing using the reduced range practice rocket.

d. Precision Guided Munitions. Detailed theory lessons on how precision guided munitions work including the inertial navigation system, global positioning system and weapon effect using different fuses against various targets sets.

e. Communications. Management of the current in-service Very High Frequency (VHF) radio systems. Students are also taught how to use the Common Battlefield Applications Toolset (ComBAT) which provides the main command & control and situational awareness data interface with the VHF radio systems.

f. Student Teaching Practice. Students are assessed on a practical lesson using the Fire Control Panel Trainer simulator and a theory lesson during the course.

Course Vacancies. The course is delivered bi-annually.

Pre-course Standards. Students must be:

a. MLRS AFV Commander or international equivalent.

b. MLRS Level 3 advanced operator or international equivalent.

Multiple Launch Rocket System (MLRS) Advanced Operator
Preparation: MLRS Branch, Royal Artillery

Purpose of Attendance/Course Aim. The course is specifically designed to train Junior Non-Commissioned Officers (JNCOs) to competently operate the MLRS and act as the Detachment Second-in-Command (2IC) in the field and in barracks.

Description. The instruction on the four week MLRS Level 3 course is delivered by a mixture of classroom based training and a number of days deployed in the field. The course takes advantage of different technologies such as online training through the Defence Learning Environment and classroom based simulation which also includes three MLRS Cab simulators which is connected to an virtual training environment to enhance the students learning experience. Training objectives cover four main areas:

a. Servicing and Maintenance. Conduct servicing and maintenance of the MLRS vehicle, fire control system and ancillary items.

b. Deployment. Conduct MLRS deployments to support conventional war fighting and counter insurgency operations. This includes understanding the threat, Armoured Fighting Vehicle (AFV) navigation, AFV tactical movement, reconnaissance, standard deployments in the field and non-standard deployments such as artillery raids and firing off the line of march.

c. Fire Mission Procedures. Command the MLRS detachment during simulated Guided MLRS-Unitary (GMLRS-U) and AT2 SCATMIN (Anti-Tank Scatatable Mine) fire missions and fire plans. Students will also conduct live firing using the reduced range practice rocket.

d. Precision Guided Munitions. Detailed theory lessons on how precision guided munitions work including the inertial navigation system, global positioning system and weapon effect using different fuses against various targets sets.

e. Communications. Installation and fault finding on the current in-service Very High Frequency (VHF) radio systems. Students are also taught fire mission voice procedures.

d. Reloading. Students are taught how to reload the MLRS using the boom controller and Rocket Pod Containers. This is conducted in camp and in more challenging situations in the field.

e. Detachment Second-in-Command. Command fire mission procedures as the detachment 2IC.

Course Vacancies. The course is delivered bi-annually.

Pre-course Standards. Students must be:

a. Driver or international equivalent.

Multiple Launch Rocket System (MLRS) Command Post Operator and Battery Reconnaissance Officer
Preparation: MLRS Branch, Royal Artillery

Purpose of Attendance/Course Aim. Upon successful completion of the course, qualified students will be able to act as a MLRS Command Post Officer (CPO) and Battery Reconnaissance Officer (BRO).

Description. The instruction on the five week MLRS CPO/BRO course is delivered by a mix of classroom based training and a number of days deployed in the field. The course takes advantage of different training technologies such as online training through the Defence Learning Environment and classroom based simulation which also includes three MLRS cab simulators to enhance the students learning experience. Training objectives cover four main areas:

a. Deployment. Command a MLRS Troop in support of conventional war fighting and counter insurgency operations. This includes understanding the threat, counter surveillance, tactical movement, orders process, standard and non-standard deployments.


c. Servicing and Maintenance. Conduct management checks in accordance with the Unit Equipment Care Directive.

d. Reconnaissance. Conduct urban/rural reconnaissance and survey procedures during standard and non-standard deployments.

Course Vacancies. There are two courses per year (duration 5 weeks).

Pre-course Standards. Students must have/be:

a. SNCO or above.

Securty cleared in accordance with Defence Manual of Security Vol 1 (JSP 440) and that certificates are sent to SO2 (Sy) at the RSA.
Purpose of Attendance/Course Aim. The aim of the BC CS course is to provide newly appointed BCs with CS weapon platform capability updates, qualify as OIC practice, revise on Targeting procedures and the Targeting Directive and undertake intensive BG level Fire Plan training. This course is a mandated training requirement to enable a BC to competently operate in the collective training arena and beyond.

Description. Training Objectives cover the areas detailed below:

- Advise the Battlegroup Commander on the Employment of Joint Fires. Primarily concerned with Joint Fires Assets at BG level, students also learn and practice standard and non-standard missions, Fire Planning, and ROE and CD factors.
- Deliber Joint and Multi National Fires. This covers all aspects of commanding a Tac Group and JFC whilst applying the targeting process and battlespace management at BG level. It also includes counter battery fires and the employment of RA allocated ISTAR Assets as part of the Bde/BG ISTAR Plan.
- Conduct Indirect Fire Engagements. The course goes in to detail of how to utilise target acquisition system equipment and conduct precision fires engagements. Sometime is used to further the trainee’s knowledge of conducting close support engagements and directing a battery deployment plan.
- Apply Joint Fires Training and Safety Procedures. The trainee will be able to conduct operational safety, plan and conduct Sub Unit training and carry out the duties of OIC practice to a minimum of stage 3.

Training Objectives:

- Advise the Battlegroup Commander on the Employment of Joint Fires.

Course Vacancies. The Battery Commander CS course is a two week course conducted annually (Jul). The course is purely simulator based and does not incorporate live firing; both weeks are delivered in the RSA at Larkhill.

Pre-course Standards. Students must have an in-depth knowledge of conducting Joint Fires at Coy level.

Programme:

- Task Intelligence Surveillance Target Acquisition Reconnaissance (ISTAR) Assets.
- Recce and Selection of OPs for Tac Group.
- Liaise, Integrate with and Advise the Manoeuvre Arm. Communicate as an FST. Operate within a CS Regt. Menton/Conduct Tac Group training.

Course Vacancies. The Fire Support Team Commander course is an eleven-week course conducted 3 times a year (Feb / Apr / Oct).

Pre-course Standards. Students must be OF-1 (Lieutenant) - OF-3 (Major).
Course Vacancies. There are three courses per year (duration 6 weeks). This module takes place 6 weeks prior to the start of Special-to-Discipline Module. All 8 weeks duration. CS/AD/ISTAR/Precision Firing.

Pre-course Standards. Students must have completed the Regular or Reserve Commissioning course at the Royal Military Academy Sandhurst or an equivalent course at a foreign military academy.

Pre-course Standards. Students must have/be:
- 2Lt Rank or above.
- Selected to join a Close Support Regiment.

Purpose of Attendance/Course Aim. To develop the professional knowledge and skills of junior officers in order to prepare them technically and professionally for their first regimental appointment.

Description. Training objectives cover six main areas:
- 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 systems. On selection of discipline deeper technical training is undertaken which is pertinent to the chosen discipline.
- e. Operational Training. Students conduct base line weapon system training in sitting and deployment exercises and manage training.

Training Objectives:
- a. Operate within a CS Regiment. Operate as a crew member of the FST, understanding the tactical environment and the FST's role within the battle.
- b. Deploy and fight specialist OP equipment. Students are trained on the Manportable Surveillance and Target Acquisition Radar (MSTAR), the Dismounted Equipment Target Locator (DETL), the Firestorm suite and the Defence Advanced GPS Receiver (DAGR) to aid them in their role as a FST Assistant Level 3.
- c. Conduct Fires. Conduct all artillery missions (less for suppression and mark) as a terminal controller and apply Rules of Engagement (ROE) within a Joint Fires context. Carry out the role of FST L3 during the Fire Plan.
- d. Communicate as a FST. Use Fire Discipline words and phrases and communicate using in-service communications equipment.
- e. Operate within a CS Regiment. Operate as a crew member of the FST, understanding the tactical environment and the FST's role within the battle.

Course Vacancies. There are three courses per year (duration 6 weeks). This module takes place 6 weeks prior to the start of Special-to-Discipline Module. All 8 weeks duration. CS/AD/ISTAR/Precision Firing.

Pre-course Standards. Students must have completed the Regular or Reserve Commissioning course at the Royal Military Academy Sandhurst or an equivalent course at a foreign military academy.

Pre-course Standards. Students must have/be:
- a. 2Lt Rank or above.
- b. Selected to join a Close Support Regiment.

Purpose of Attendance/Course Aim. Upon successful completion of the course qualified students will be able to act as a Command Post Officer (CPO). The CPO is responsible for the efficient operation of the Command Post in support of Calls for Fire. They supervise the computation of ballistic data and relay this information to the Gun Platforms. On successful completion of the course, students will be awarded the competence of Young Officers' Course – Command Post Officer (Close Support).

Description. Training objectives cover the following areas:
- a. Operate within a Close Support Regiment Structure. Understand the mission of a Gun Regiment within the British Army and the structure within a Brigade setting.
- 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, FCBSA, FCA and MPoD. Includes both simulation and live serials working in the field setting.
- d. Manage Battery Equipment. Develop an understanding of the maintenance chain within a Gun Regiment and procedures that need to be completed.
- e. Manage Training. Learn how to develop the soldiers under your command. Design and deliver challenging and relevant training within a Close Support Regimental construct.
- f. Introduction to Ballistics. Conducted at the Defence Academy Shrieverham, an in depth, 3 day study into the history and application of ballistics for artillery.
- g. 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.

Course Vacancies. There are three courses per year (duration 8 weeks).

Pre-course Standards. Students must have/be:
- a. 2Lt Rank or above.
- b. Selected to join a Close Support Regiment.
Young Officers’ Command Post Officer / Troop Comd, MLRS
Young Officers’ Branch, Command & Tactics Wing

**Purpose of Attendance/Course Aim.** This course is aimed at Young Officers on initial special-to-discipline training for employment as a Troop Commander within a MLRS Battery. Upon successful completion of the course, qualified students will be able to act as a MLRS Command Post Officer (CPO) and Reconnaissance Officer.

**Description.** The instruction on the five week MLRS CPO course is delivered by a mixture of classroom based training and a number of days deployed in the field. The course takes advantage of different technologies such as online training through the Defence Learning Environment and classroom based simulation which also includes three MLRS cab simulators to enhance the students learning experience. Training objectives cover five main areas:

a. **Deployment.** Command a MLRS Troop in support of conventional war fighting and counter insurgency operations. This includes understanding the threat, counter surveillance, tactical movement, orders process, standard deployments in the field and non-standard deployments such as urban, artillery raids and firing off the line of march.

b. **Fire Mission Procedures.** Carry out the duties of a CPO during simulated Guided MLRS-Unitary (GMLRS-U) and AT2 SCATMIN (Anti-Tank Scatterable Mine) fire missions and fire plans. Students will also conduct live firing using the reduced range practice rocket.

c. **Servicing and Maintenance.** Conduct vehicle and ancillary items management checks in accordance with the Unit Equipment Care Directive.

d. **Precision Guided Munitions.** Detailed theory lessons on how precision guided munitions work including the inertial navigation system, global positioning system, weapon effect using different fuses and weapon employment against various targets sets.

e. **Reconnaissance.** Conduct reconnaissance and survey procedures during standard deployments in the field and non-standard deployments such as urban and artillery raids.

**Course Vacancies.** There are two courses per year (duration 5 weeks).

**Pre-course Standards.** Students must be 2Lt Rank or above.

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Young Officers’ Intelligence, Surveillance & Reconnaissance (ISR)
Young Officers’ Branch, Command & Tactics Wing

**Purpose of Attendance/Course Aim.** The aim of the course is to train selected officers to carry out the duties of an ISTAR Tac Party Commander within Surveillance Target Acquisition (STA) or Mini Unmanned Air System (MUAS) Regiment.

**Description.** Training objectives cover three main areas:

a. **Operate within the ISTAR environment.** Operate within 1 ISR Bde, operate and integrate with a BG and operate within a RA ISTAR Regt.

b. **Integrate, task and advise on ISTAR Assets.** Integrate and task ISTAR assets and advise on employment, capabilities and limitations of ISTAR assets.

c. **Liaise with intelligence gathering organisations.** Liaise with intelligence gathering organisations to enable the ISTAR process and joint effect, liaise with BG desk officers and liaise with other BG and HQ staff officers.

**Course Vacancies.** There are three courses per year (duration 8 weeks). This course follows from the Young Officer Common Course of (6 weeks) Course Code YO1.

**Pre-course Standards.** Students must have/be:

- a. Completed the Regular or Reserve Commissioning course at the Royal Military Academy Sandhurst or an equivalent course at a foreign military academy.
- b. T1t / 2Lt or OF-2 (Captain).

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Collateral Damage Estimation (CDE) Methodology Course
Targeting Branch, Command & Tactics Wing

**Purpose of Attendance/Course Aim.** To train and qualify Tri-Service personnel as Collateral Damage Estimation (CDE) analysts capable of performing formal CDE.

**Description.** The instruction of the 5 day CDE Methodology course is delivered as a classroom based course.

a. This course is to train tri-service personnel as CDE analysts capable of performing formal CDE, covering the following the UK’s CDE policy, processes and methodology.

b. This training is required for personnel employed in targeting appointments as the operation or higher tactical (Brigade/Division) levels in order to enable CDE to be conducted.

**Course Vacancies.** There are 2 courses per year (duration 1 week).

**Pre-course Standards.** Students must have/be:

- a. 4 Eyes only (US, UK, CAN, AUS).
- b. Minimum rank of Bdr/Cpl.
- c. Essential that the students have completed the Full Spectrum Targeting Course (FSpect) prior to Sep 18.

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Targeting Acquaint Course (TAC)
Targeting Branch, Command & Tactics Wing

**Purpose of Attendance/Course Aim.** The aim of the Targeting Acquaint Course (TAC) is for those personnel with a supervisory or contributory responsibility for targeting, or whose role requires familiarity with the targeting process.

**Description.** The instruction of the 2.5 day TAC is delivered as a lecture theatre based course.

a. Students will gain a broad understanding of full spectrum targeting: responsibilities, terminology, legal and policy framework; and Target Engagement Authority (TEA).

b. The TAC also provides a refresh of the key policy and legal aspects of the targeting process and is additionally used to recently current Targeteers who have already attended the Full Spectrum Targeting Course (FSpect).

c. The end-state is an officer who has a foundation understanding of Targeting and is able to conduct the duties of a Target Engagement Authority.

**Course Vacancies.** There are 3 courses per year (duration 2.5 days).

**Pre-course Standards.** Students must be a minimum rank of OF2.
**Purpose of Attendance/Course Aim.** The aim of the FSpecT course is to enable students to understand the concept of integrating lethal and non-lethal targeting activities, and thus enabling students 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 through to the operational level.

**Description.** The instruction of the 4 week FSpecT is delivered by a mixture of lecture theatre based presentations, syndicate exercises both classroom and local area based, and simulation aided exercises. The FSpecT is the principle targeting course to qualify tri-service personnel as full spectrum targeteers. The course will cover a number of areas:

a. The student will look at how information operations plays a key part in the non-lethal approach to targeting, the use of gaining information through multi source networks, such as newspapers, magazines, television, radio, and most importantly social media, Facebook, Twitter, Instagram are but some of the most readily available sites exploiting information every second globally.

b. Collateral damage estimation (CDE) methodology, explaining how the use of UK methodology can negate damage to buildings or even injuries or death to innocent civilians when carrying out military tasks. Note: this course module is for 4 Eyes students only (for additional details see T13C).

c. Understanding of humanitarian law and the Law of Armed conflict, and knowing what we as service personnel can do and what we cannot do in order to keep us on the right side of the law, and to keep us popular within the press and not allowing countries / media to exploit any potential wrong doing.

d. Understanding of operational staff work and dissecting the essential parts to help you in the targeting role, and to help and advise your staff within the headquarters.

e. Munitions briefs as to showing the student practically, different types of warheads and effects associated with different weapon systems currently in use by the world armies.

f. The use of analytical tools to aid when going through planning processes within a headquarters whether it is at the tactical level at the lowest denominator all the way up to operational level.

**Course Vacancies.** There are 3 courses per year: Jan / May / Sept (duration 3 weeks).

**Pre-course Standards.** Students must have some previous targeting experience.
Purpose of Attendance/Course Aim is to train Offensive Support and ISTAR staff (Officers and Warrant Officers) who operate at formation level to understand and plan the Integration and use of ISTAR and fires (including Air Defence). 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. ISTAR, Fires and AD annexes; understanding land tactical targeting; advising the commander on ISTAR and Artillery operations; and supervising formation level JFC operations.

Description. Instruction and Training Objectives follow daily themes.

Day 1. Setting the Context, Find/Protect, and introduction to Targeting. Provides students with the appropriate context in which a near peer adversary operates and the correct means to counter this threat followed by an introduction to full spectrum targeting methodology.

Day 2. Dynamic Targeting and Combat Engagement. Delves deeper into targeting methodology and practical exercise leading to the creation of products to include the high payoff target list, high value target list, effects guidance matrix, decision support overlays and intelligence collection plan supported by SMEs from the field.

Day 3. Brigade/Division level Staff Work. Scenario based training driving students to develop operational staff work to include; OpOrder main body input, specific annexes (ISTAR, Fires, AD) and Battlespace Management graphics.

Day 4. Operational Updates. Continuation of lessons learnt from current leaders within the field force focusing on operational issues and procedural best practices. Designed to prevent a lack of coordination between entities (ISTAR, Fires, and Battlespace Managers) and enhance execution through a common language culminating in a wargaming exercise following fires Annex and OSW review.

Day 5. Execution and Capstone Exercise. Implementation of students’ OSW, orders production, logic, and war fighting considerations validating/identifying gaps in their plan of execution.

Course Vacancies. There are three courses per year (duration 5 days) with a minimum of 12 vacancies and a maximum of 20.

Pre-course Standards. Students must be Captains or Warrant Officer equivalent ISTAR and Fires/AD Officers currently serving in or preparing to serve in deployed divisional and brigade HQs.

Purpose of Attendance/Course Aim. The aim of the GBAD CPO course is to instruct the students how to plan, implement and co-ordinate the effective employment and deployment of GBAD weapon systems as laid down in UK doctrine.

Description. Instruction and Training Objectives cover the areas detailed below;

a. Integrate GBAD into the Joint AD environment. The organisation, roles and tactical employment of UK Ground Based Air Defence (GBAD) artillery. Identify the key components of the Joint Air Defence 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. Conduct Air Intelligent Preparation Environment (IPE) and GBAD Estimate. Theory and practical lessons utilising current Air threats against the GBAD Estimate and Air Intelligent Preparation of the Environment (Air IPE).

c. Plan, Co-ordinate, Employ and Deploy UK GBAD. Primarily focused on UK deployment templates for each Weapon System and their role within the Layered Air Defence process.

d. Conduct the duties of a GBAD CPO. A practical element situated in the GBAD Battle rooms focusing on applying the theoretical work previously learnt in the escalation and de-escalation process.

Course Vacancies. The GBAD Command Post Officer course is 4 weeks and conducted bi-annually.

Pre-course Standards. Students are required to be either substantive Senior Non-Commissioned Officer or Commissioned to the rank of Lieutenant or Service equivalent.
Instructor Gunnery Course (ISTAR GBAD)

ISTAR Wing

**Purpose of Attendance/Course Aim.** The premier officer course within the Royal Artillery delivers in-depth technical and tactical employment training in order to qualify selected officers as Instructors in Gunnery. Experienced officers (Captains and above) who possess the necessary experience and technical acumen are selected and developed over an 11 month period into subject matter experts who fill demanding instructional, acquisition and command appointments.

**Description.** The course focuses on 3 main functional areas; the ‘Sensors’, the ‘Shooters’ and the ‘Deciders’. Within these areas, students explore in service capability, studying doctrine and tactics, specific platform technology, the Army’s training system and most importantly how to integrate capability into the Artillery system as well as the Army’s training system and most importantly how to positively influence key fields of acquisition, safety and capability development.

**ISTAR/GBAD Modules:**
- Baseline module
- Doctrine and Tactics (including planning – BG to Bde)
- Level 5 Teaching and Learning
- Science and Technology (aimed at, and taught to A5 level)
- Training Systems
- GBAD and ISTAR Platform Training
- Joint Battlespace Management Course
- GBAD Engagement Officers Course
- ISTAR Ops Officers Course
- European Exercises

**Course Vacancies.** The annual course is 46 weeks long and split into 3 distinct terms.

Gunnery Career Course (ISTAR GBAD)

ISTAR Wing

**Purpose of Attendance/Course Aim.** The Gunnery Career Course (GCC) is the premier course for Royal Artillery Senior Non-Commissioned Officers (SNCOs).

The aim of the course is to develop selected SNCOs who have completed at least 12 years in their particular trade and have been graded as being the top 10% of practitioners in their specific ISR/GBAD specialty. Successful candidates gain the Qualified Gunnery Instructor (QGI) qualification denoting membership of the Gunnery Staff. This qualification allows them to fill the highest grade Gunnery Staff instructional and staff appointments.

- **Term One** focuses on expanding the students’ knowledge of the British Army’s Capstone doctrine, military planning and Battle Group and Brigade level tactics. The students are also enrolled onto a Level 4 Diploma in Education and Training, resulting in a high grade professional teaching qualification being awarded. They also receive a 3 week advanced Artillery Command Systems package, 2 weeks of military Science and Technology instruction and a Virtual Battlefield Simulation course.

- **Term Two** students are divided into disciplines according to trade. Those who reign from an ISR background attend the Surveillance, Target and Acquisition training facility at Upavon where they receive bespoke training on the following ISR capabilities: ASP, MAMBA, LCMR and DH3. The remainder of the students will receive training on the following GBAD capabilities: Rapier FSC, HVM SP, HVM LML and LEAPP. This training is delivered at either the Royal School Artillery or in Thorney Island on the South coast of England. During term two students will also explore future, trade specific capabilities and emerging technologies. To ensure the students receive a higher level of understanding of the capabilities studied, they will conduct numerous Industry and defence visits within the UK and overseas.

- **Term Three** sees the students deliver an array of projects conducted throughout the course. These include: Defence System Approach to Training, Doctrine and Tactics as well as the planning and execution of a Battlefield Study; and Missile Practice Camp. This final term also contains two NATO capability comparison exercises in Germany and Poland. The knowledge gained over the course is tested throughout and culminates with a confirmation live exercise which is designed, planned and delivered by the students.

The Gunnery Careers Course produces high-grade SNCOs with a superior understanding of not only ISR/GBAD artillery, but of the Artillery system of systems.

**Course Vacancies.** The annual course is 47 weeks long and split into 3 distinct terms.

1. ACS, STA, UAS, GBAD.
2. L5 Education & Training qualification is provided by Wiltshire and Somerset College Partnership (WASP).
Purpose of Attendance/Course Aim. The aim of this course is to develop the knowledge and skills of selected RA Personnel to carry out the duties of a DH3 Pilot.

Description. Training objectives cover four main areas:

a. Command the Battery from the STA Coordination Centre (STACC). Command a STA Bty, understand and apply BM and devise the CSS plan for the STA Bty.

b. Establish the STACC. Support comdt’s CF plan, STAP and ICF, advise the comdt on the status of STA assets, exercise OPCOM of relevant STA assets, establish sensor-to-shooter ‘Quick Fire’ links in accordance with EGIM, exercise C2 over attached STA assets as directed, contribute to the formulation of EMCON policy, de-conflict battlespace, determine and promptulate the met support plan to STA assets, produce and disseminate Artillery Reserved Area (ARA) and Artillery Manoeuvre Area (AMA) information, allocate Named Area Interest (NAI), Target Area Interest (TAI) and maintain Situation Awareness (SA) of the STA assets.

c. Deploy STA assets. Apply the deployment principles, evaluate deployment factors, determine deployment type, conduct the counter fires estimate, initiate the recce process, deploy the Battery, monitor readiness states and plan and manage an ISTAR network.

d. Operate within the Bde/Div ISTAR cell. Coordinate and manage activities of the Bde/Div ISTAR cell, liaise with formation staff, advise on strategic and operational ISR capabilities, advise on the capabilities of in-service STA assets, utilise operational staff work, liaise with legal advisors, apply the UK joint targeting policy, apply measures of effectiveness and battle damage assessment, advise on collateral damage estimate (CDE),

Training Objectives:
• Command the Battery from the STA Coordination Centre (STACC)
• Establish the STA Coordination Centre
• Deploy STA Assets
• Operate within the Bde/Div ISTAR Cell

Course Vacancies. There is one course per year (duration 1 week).

Pre-course Standards. Students must be Officer-Lieutenant.

Mini Unmanned Air Systems (MUAS) Advanced Operator
Surveillance Target Acquisition & Reconnaissance Branch
G51E

Purpose of Attendance/Course Aim. The aim of this course is to develop the knowledge and skills of selected RA Personnel to carry out the duties of a DH3 Pilot.

Description. Training objectives cover seven main areas:


b. Interpret Orders and Tasks. Carry out the orders process, Deliver DH3 Mission Back Brief to the Authorising Officer, Complete a DH3 Authorisation Form.


e. Maintain a Tactical Map. Utilise a Tactical Map.

f. Operate within Controlled Airspace. Comply with the document set associated with DH3 operation, Coordinate DH3 Launch, Coordinate DH3 Flight, Coordinate DH3 Recovery.

g. Operate DH3 Payload. Control the Sensor using the Turret Controller, Utilise the Panasonic Tablet, Exploit Imagery, Create a target pack.

Course Vacancies. There are three courses per year (duration 2 weeks).

Pre-course Standards. Students must be:

a. Substantive Bombardier.

b. MUAS Level 2.
Purpose of Attendance/Course Aim. The aim of the course is to upgrade substantive Lance Bombardier Gunner SrG level 2 qualified soldiers to level 3. Once qualified the soldier will be able to command a sensor post party and work in the SrG command post (CP). Once qualified the soldier will be able to command a sensor post party and work in the SrG command post (CP).

Description. Training objectives cover nineteen main areas:

a. Navigate a vehicle tactically. Apply the principles of maneuver 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) detachment.
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 survey and carry out gross error checks for orientation.
e. Mark information on a tactical map. Extract information from orders and update the Command Post Tactical Map with the correct friendly and enemy symbols.
f. Supervise the operation of the sensor post processor. Supervise the MIDAS operations, supervise the entry of survey data, supervise the entry of 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 man machine interface (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 (BRG). State the outline organisation and role within a BG.
l. Analyse the organisation and function of 1 ISR Brigade. State the organisation of 1 ISR Brigade and state the role of 1 ISR Brigade.
m. Examine the intelligence preparation of the battlefield and targeting cycle. Identify the links between IPB and targeting and identify the targeting cycle.

h. 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.

n. 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 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.

t. 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 and conduct sound adjustment missions.
u. 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.

w. Supervise servicing and maintenance tasks. Supervise all servicing tasks, Identify unserviceable equipment, complete the relevant forms, documentation and identify the contractor logistical support chain.
x. State the capabilities of Surveillance Target Acquisition (STA) assets. Identify the role, capabilities and limitations of divisional and brigade STA assets.
y. State the employment of British artillery regiments. State the employment of British artillery regiments.
z. 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 Battlefield (IPB) 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 IPB.

k. Identify unit nets and communication paths up to divisional level. State the radios within the brigade/division command network, get 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 secure orders cards (SOCs) and supervise the encoding and decoding of reports and return.

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 the field, state how information is recorded on a map and maintain and update a tactical map according to inreps.

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 AVF 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, calculate confidence levels and explain how false locations are produced and what can be done to minimise this effect.

Course Vacancies. There is one course per year (4 weeks).

Pre-course Standards. Students must be:

a. Substantive Lance Bombardier.
b. Gunner SrG level 2.
Purpose of Attendance/Course 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 4.

Description. Training objectives cover fifteen main areas:

a. Carry out a detailed recce and issue orders. Carry out a detailed recce of a radar platform and deliver formal orders to the radar section.
b. Solve intervisibility problems. Determine whether two points are indivisible.
c. Carry out the duties of a Weapon Locating Radar subject matter expert within the Battery command post. Explain the duties of Battery command post personnel and maintain a tactical map.
d. Carry out Counter Fires planning. Explain the Counter Fires planning factors, explain the Counter Fires targeting process, complete a Counter Fires Target List and complete a Weapon Locating Tracking proforma.
e. Examine Counter Fires doctrine. Explain the Roles and Doctrine of Artillery, explain the operational Framework, explain the use of Artillery in Deep, Close and Rear operations, explain Artillery core Functions, examine the relationship between Core Functions and operational, explain Counter fires principles, explain the deployment of WL Artillery, explain the operation of WL assets and explain the Counter fires mission procedures.
f. Carry out Intelligence Preparation of the Battlefield & Targeting process. Examine the targeting cycle, explain how WLR are employed in the targeting process and produce an IPB Trace.
g. Apply Radar Theory. Explain the operation of phased array radar, Explain Doppler effect and explain the factors affecting radar return signal.
h. Identify unit communications nets and paths up to Divisional level. Identify the radios within the Brigade/Divisional Headquarters; List the radio nets manned by each vehicle within the Headquarters and identify net levels and types.
i. Carry out radar voice communication procedure updates. Supervise the sending and receiving of reports and returns, supervise the sending and receiving of secure orders cards and supervise the sending and receiving of Hostile Location Reports.
j. Carry out crypto management. Explain the importance of the handling of crypto and carry out security procedures.
k. Operate the Mobile Artillery Monitoring Battlefield Radar (MAMBA) Inertial Navigation system. Explain the operation of the component parts of the navigation system, set up the on-board GPS receiver, Power up the inertial navigation system, Action basic alert messages, Navigate using the waypoint menu, operate the system when GPS data is unavailable and Close down the inertial navigation system.
l. Supervise the operation of the MAMBA radar. Explain the mission site criteria and limitations, Explain the modes of operation, Supervise site evaluation, Analyse radar set up menus to optimise radar effectiveness, Supervise into action procedures, Supervise the operation of the Man Machine Interface (MMI) and Carry out the duties of the radar Detachment Commander (DC).
m. Carry out detachment training. Operate the Built in simulator (BIS) and Operate the classroom based trainer.
n. Supervise the MAMBA radar health and safety measures. Analyse the personnel hazards, analyse the equipment hazards and identify the operation of safety equipment.
o. Optimise the operation of the MAMBA radar beam. Explain how MAMBA classifies weapon types and accuracy and explain the MAMBA priority directive.

Course Vacancies. There is one course per year (duration 4 weeks).

Pre-course Standards. Students must be:

a. Substantive/Acting Bombardier.
b. WLR Level 3

Purpose of Attendance/Course Aim. The aim of the course is to train and qualify selected LCMR Level 2 soldiers to perform the duties and tasks of a Surveillance Target Acquisition (STA) Light Detachment Operator.

Description. Training objectives cover eight main areas:

a. Deploy the LCMR. Conduct a CES check, prepare the Lightweight Counter Mortar Radar (LCMR) and generator for movement, conduct tactical movement of the LCMR, site the LCMR, understand how to de-conflict with adjacent radars and understand how to conduct disablement drills.
b. Operate the LCMR. Operate the laptop, utilise 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. Utilise AESP 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 GPS equipment. Operate in-service GPS equipment, conduct Azimuth determination and achieve a state B fix.
g. Conduct surveillance. Aid situational awareness.
h. Organisation and deployment. Understand how to operate with All Arms organisations at Company and Battlegroup level and identify All Arms organisations at Company and Battlegroup level.

Course Vacancies. There is one course per year (duration 2 weeks).

Pre-course Standards. Students must be:

a. Substantive Lance Bombardier.
b. STA Level 2
Lightweight Counter Mortar Radar (LCMR) Detachment Commander
STA Branch, ISTAR Wing

Purpose of Attendance/Course Aim. The aim of the course is to train and qualify selected LCMR Level 3 soldiers to perform the duties and tasks of a Surveillance Target Acquisition (STA) Detachment Commander (DC).

Description. Training objectives cover ten main areas:

a. Manage survey. Calibrate and use the prismatic compass, site the Light weight Counter Mortar Radar (LCMR) and also conduct FMD for state A.
b. Manage LCMR deployment. Maintain LCMR readiness states, supervise the LCMR detachment, advise on cross-cuing procedures in line with STA 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 ISTAR Tac Commander, conduct and co-ordinate detachment training.
h. Conduct Intelligence preparation of the Battlefield (IPB). Maintain a tactical map, determine how STA equipment is employed in the targeting process, apply the core functions of targeting, and examine the IPB.
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 SOPs.

Course Vacancies. There is one course per year (duration 4 weeks).

Pre-course Standards. Students must be:
a. Substantive Bombardier.
b. STA Level 3.

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 (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.

Training Objectives:
- Train the Battery; Plan and deliver GBAD; Act as a Liaison Officer as required; Plan and direct formation battlespace management (delivered on the Joint Battlespace Management Course)

Course Vacancies. There is one course per year (duration 10 days).

Pre-course Standards. Students must be Officer-Lieutenant.

Battery Commander (GBAD)
Ground Based Air Defence Branch, GBAD Wing

Purpose of Attendance/Course 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)

Description. 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 (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.

Training Objectives:
- Train the Battery; Plan and deliver GBAD; Act as a Liaison Officer as required; Plan and direct formation battlespace management (delivered on the Joint Battlespace Management Course)

Course Vacancies. There is one course per year (duration 10 days).

Pre-course Standards. Students must be Officer-Lieutenant.

High Velocity Missile Lightweight Multiple Launcher (LML) Basic Operator
Ground Based Air Defence Branch, GBAD Wing

Purpose of Attendance/Course Aim. The aim of the course is to train soldiers to become a basic operator of the High Velocity Missile (HVM) Lightweight Multiple Launcher (LML) weapon system.

Description. The course covers three main areas:
a. Standing Drills. The students will be taught how to deploy and set up the weapon system, including the missile launcher, surveillance and identification system. The students will also be taught how to carry out target engagement drills to enable them to fire a missile, this will also include the use of simulation equipment for the students to practice on.
b. Weapon system servicing and testing. The students will cover how to carry out basic maintenance procedures, fault finding and testing.
c. Weapon System Theory. The students are taught how the weapon system works, including target detection and missile operation. This allows them to gain an understanding of how to use the system to its full potential and assist in fault diagnosis.

Course Vacancies. There is one course per year (duration 12 days).
Purpose of Attendance/Course Aim. The aim of the HVM (SP) 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 tactically control the weapon system.

Description. 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 to control engagements and direct operators in a wide range of situations. 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 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.

Course Vacancies. There are two courses per year (duration 18 days).

Pre-course Standards. Students must be:

a. Substantive Bombardier.
b. HVM SP Level 2 Operator.

Purpose of Attendance/Course 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 tactically control the weapon system.

Description. The course covers five main areas:

a. Tactics and Doctrine. 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 to control engagements and direct operators in a wide range of situations. 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 Theory. The students are given further information on how the weapon system works, to build and develop the knowledge gained at Level 2. This also includes how to disable the system if required.

d. Weapon System servicing and testing. The students will cover how to carry out maintenance procedures, 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 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.

Course Vacancies. There are two courses per year (duration 18 days).

Pre-course Standards. Students must be:

a. Substantive Bombardier.
b. HVM SP Level 3 Tactical Controller.

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Purpose of Attendance/Course Aim. The aim of the HVM (LML) Level 4 Detachment Commanders course is to give soldiers who are already Level 3 qualified, sufficient knowledge and skill to enable them to command an HVM detachment in the field.

Description. The course covers five main areas:

a. Tactics and Doctrine. 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 to control engagements and direct operators in a wide range of situations. 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 Theory. The students are given further information on how the weapon system works, to build and develop the knowledge gained at Level 2. This also includes how to disable the system if required.

d. Weapon System servicing and testing. The students will cover how to carry out maintenance procedures, 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 the knowledge gained at Level 3. This also includes how to disable the system if required.

Course Vacancies. There are two courses per year (duration 15 days).

Pre-course Standards. Students must be:

a. Substantive Bombardier.
b. HVM LML Level 3 Tactical Controller.
Purpose of Attendance/Course Aim. The aim of the HVM (SP) Level 5 Fire Group Commanders 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.

Description. 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.

b. Reconnaissance and siting. Students will develop their existing knowledge on the concept of carrying 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 FG commanders and get the chance to practice their skills in a simulated environment.

Course Vacancies. There is one course per year (duration 11 days).

Pre-course Standards. Students must be:

a. Substantive Sergeant.

b. HVM SP Level 4 Detachment Commander.

Purpose of Attendance/Course Aim. The aim of the HVM (LML) Level 5 Fire Group Commanders 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.

Description. 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.

b. Reconnaissance and siting. Students will develop their existing knowledge on the concept of carrying 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 FG commanders and get the chance to practice their skills in a simulated environment.

Course Vacancies. There is one course per year (duration 11 days).

Pre-course Standards. Students must be:

a. Substantive Sergeant.

b. HVM LML Level 4 Detachment Commander.
Description. The course covers four main areas:

a. Tactics and Doctrine. The students will study factors that affect weapon system employment including threats faced by the fire unit, the principles of GBAD, planning considerations and doctrine.

b. Reconnaissance and siting. Students will be introduced to the concept of carrying weapons system location reconnaissance, deployment planning and site layouts. This includes the use of electronic planning tools and tactical movement between positions.

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.

Course Vacancies. There is one course per year (duration 14 days).

Pre-course Standards. Students must be:

a. Bombardier.

b. Rapier FSC Level 3 Tactical Controller.

Purpose of Attendance/Course Aim. The aim of the Rapier FSC 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 tactically control the weapon system.

Description. 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, including adding and removing sub systems. 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 reversionary modes of operation.

b. Tactical Control engagement procedures. The students will be able to control engagements and direct operators in a wide range or serials and events. They will get the opportunity to practice and test their skills in purpose built detachment engagement simulator.

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.

Course Vacancies. There is one course per year (duration 18 days).

Pre-course Standards. Students must be:

a. Substantive Lance Bombardier.

b. Rapier FSC Level 2 Operator.

As part of their duties they will understand how to conduct local defence, deliver tactical GBAD briefs and utilise GBAD specific communication systems.

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.

Course Vacancies. There is one course per year (duration 18 days).

Pre-course Standards. Students must be:

a. Sergeant.

b. Rapier FSC Level 4 Detachment Commander.

Purpose of Attendance/Course Aim. The aim of the Rapier FSC Detachment Engagement Trainer (DET) Manager’s course is to give soldiers who are already Rapier FSC Level 4 qualified, sufficient knowledge and skill to enable them to plan and deliver training in the Rapier DET simulator located at St George’s Barracks in North Luffenham.

Description. The course covers three main areas:

a. DET Facility equipment. The students will study all of the equipment found within the DET facility and learn how to operate and maintain it correctly including the identification of potential hazards.

b. Creation of training scenarios. Students will learn how to bring the DET facility into action and run various pre-loaded training scenarios. They will also learn how to create their own scenarios based on various threats and in several different theatres of operation.

c. After action reviews. The students are taught utilise the DET facilities to deliver video and audio feedback on how students have performed during their training scenarios. They will also cover completing and reviewing DET log book records that accompany each scenario.

Course Vacancies. There is one course per year (duration 9 days).

Pre-course Standards. Students must be:

a. Sergeant.

b. Rapier FSC Level 4 Detachment Commander.
The Army is mandated by Defence Strategic Direction to conduct a range of international activities in support of current and future operations, to develop inter-operability with allies and partners and support wider government and defence international security co-operation objectives. The Royal School of Artillery welcomes the opportunity to train alongside our international partners, further enhancing our status as an international training centre. British Artillery courses continue to reflect the changes and developments in NATO and British Army Military Tactics and Doctrine, including lessons identified in recent Operations.

Should you wish to discuss any aspect of training, bespoke packages, exchanges or short term training teams at the RSA, please do not hesitate to contact me:

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For further information:
http://www.army.mod.uk/training_education/26587.aspx