### Programme Approval Form

#### Section 1 – The Programme Specification

1. **Programme title and designation**
   - Aviation Medicine

2. **Final award**
   - | Award | Title              | Credit value | ECTS equivalent | Any special criteria |
     |-------|--------------------|--------------|-----------------|---------------------|
     | MSc   | Aviation Medicine | 180          | 90              | N/A                 |

3. **Nested awards**
   - | Award            | Title                  | Credit value | ECTS equivalent | Any special criteria |
     |------------------|------------------------|--------------|-----------------|---------------------|
     | PG Certificate   | Aeromedical Science    | 90           | 45              | N/A                 |

4. **Exit awards**
   - | Award           | Title                  | Credit value | ECTS equivalent | Any special criteria |
     |-----------------|------------------------|--------------|-----------------|---------------------|
     | PG Certificate  | Biosciences            | 60           | 30              | Students who pass 60 credits |
     | PG Diploma      | Biosciences            | 120          | 60              | Students who pass 120 credits |

5. **Level in the qualifications framework**
   - M/7

6. **Attendance**
   - | Mode of attendance | Full-time | Part-time | Distance learning |
     |---------------------|-----------|-----------|------------------|
     |                     | X         | X         | Nil              |
     | Minimum length of programme | 1 year (nested 6 months) | 2 years | Nil |
     | Maximum length of programme | 2 years | 3 years | |

7. **Awarding institution/body**
   - King’s College London

8. **Teaching institution**
   - King’s College London

9. **Proposing department**
   - Physiology Department

10. **Programme organiser and contact details**
    - Professor D Gradwell
    - david.gradwell@kcl.ac.uk
    - Tel: 0207 848 6306
    - 4.1 Shepherd’s House
    - Guy’s Campus

11. **UCAS code (if appropriate)**
    - n/a

12. **Relevant QAA subject benchmark/professional and statutory body guidelines**
    - n/a

13. **Date of production of specification**
    - August 2008

14. **Date of programme review**
    - 2014 or as advised by the College

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PAF Initially Approved: 17 February 2009
PAF modified re: nested awards: 14 December 2011
PAF finalised for 2012/13: 20 September 2012
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PAF finalised for 2013/14: 29 October 2013
16. Educational aims of the programme

The aim of this programme is to provide medical graduates with advanced theoretical and practical training in the physiology, psychology and clinical medicine of humans exposed to or working in the aviation environment. Successful completion of the programme will qualify medical practitioners to perform the tasks of a specialist in aviation medicine.

The programme will comprise lectures, tutorials and seminars with a large practical component. The latter will provide personal experience and experimental studies of a wide variety of aviation environments including flight, the aviation stresses of altitude, acceleration, heat and cold, noise, night vision, spatial disorientation, crash escape and sea survival.

17. Educational objectives of the programme/programme outcomes

The programme provides opportunities for students to develop and demonstrate knowledge and understanding and skills in the following areas:

Knowledge and understanding

The programme will provide a knowledge and understanding of the following:

1. Human physiology in the context of aviation especially that of the cardiovascular, respiratory, thermal regulatory, muscular, central nervous, visual and auditory systems.
2. Psychology in the context of aviation especially aircrew performance as affected by stress, workload, situational awareness, disturbance of sleep and circadian rhythms; the selection and training of aviation personnel; the causation and prevention of human error accidents.
3. Preventive and clinical aviation medicine and their application to the care of aviators and passengers in civil and military aviation including the medical examination and selection of aviators; the management of cardiovascular, respiratory, renal, gastrointestinal, endocrinological, orthopaedic, otological, ophthalmic, neurological and psychiatric diseases in aviators; communicable diseases in aviation; medical care of passengers in flight; transport of patients in aircraft.
4. Pathology and toxicology in the context of aviation including the medical aspects of the management and investigation of aircraft accidents; the medical plans for

These are achieved through the following teaching/learning methods and strategies:

The first part of the programme (semester 1) will focus on the theoretical and practical aspects of the cardiovascular, respiratory and neuromuscular systems. Teaching and learning opportunities will be provided through taught lectures which are closely linked to practical sessions.

Tutorial sessions will serve to act as interactive ‘debriefing’ sessions for the practical classes and allow the development of skills for the critical analysis of relevant research papers and the design and conduct of experiments.

The second part of the programme (Semesters 2 and 3) will comprise formal lectures on aviation physiology, psychology, clinical and operational aviation medicine, together with personal practical experience of aviation stresses and visits to military and civil flying establishments and to the medical departments of the Royal Air Force, Civil Aviation Authority and British Airways.

Assessment:

Testing of knowledge and understanding will be through a combination of formative and summative assessment.
Handling major accidents; toxic substances in aviation and their effects upon performance.

5. The basis and conduct of the physiological training of aircrew including the provision of personal experience of altitude hypoxia, sustained +Gz accelerations, spatial disorientation, night vision devices and aircrew personal protective equipment.

6. The design and conduct of experiments in the laboratory and the field (especially aircraft) including the health and safety and ethical issues of performing experiments on human volunteers; the appropriate methods of measuring human physiological functions and performance and collecting subjective opinions.

**Skills and other attributes**

**Intellectual skills:**

Understanding hypothesis driven science.

How to critically analyse research papers.

Identification of salient details from experimental data.

Synthesis, integration and evaluation of information and data from a variety of sources.

Utilisation of the above skills in the identification and investigation of research questions.

Ability to design and apply quantitative and qualitative (as appropriate) experimental protocols.

Ability to take a multidisciplinary and integrative approach to issues of human performance.

The design and safe execution of scientific experiments with the evaluation of their outcome.

The communication, oral and written of scientific experiments.

**Practical skills:**

In semester 1 Practical skills in human physiology will be developed which involve the measurement at rest and where appropriate during exercise, of:

1) Respiratory system; End-tidal gas tensions, respiratory flow, pulmonary ventilation and arterial oxygen saturation in normoxia and hypoxia.

These are achieved through the following teaching/learning methods and strategies:

In semester 1, these practical skills will be developed through human physiology practicals. These will take place in the Division of Applied Biomedical Sciences. In semester 2 these practical skills will be extended through both lectures and related practicals conducted at the RAF Centre of...
2) Cardiovascular system; ECG, blood pressure, cardiac output & peripheral blood flow.

In semester 2 Practical skills in the safe operation of hypobaric chambers and human carrying centrifuge will be developed, together with the techniques involved in the training of aircrew in the use of their personal protective and land and sea survival equipment.

Generic/transferable skills:

- Evaluation of the logical strength of a scientific argument.
- Time management and organisational skills.
- Oral presentation skills.
- Written communication skills.
- Computer skills e.g. e-mail, internet use of search engines/strategies, word processing and spreadsheets.
- Library skills.
- Data handling skills.
- Interpersonal skills and group activity skills.
- General laboratory skills.

These are achieved through the following teaching/learning methods and strategies:

- Practical classes and follow-up tutorials and discussions.
- Tutorials.
- Self-directed learning informed by interaction with project supervisors.
- Objective feedback from précis writing, oral presentations and laboratory reports.

Assessment:

- Both formative and summative assessment of all oral and written work is undertaken. This includes; laboratory reports, oral presentations, exams and dissertation.

18. Statement of how the programme has been informed by the relevant subject benchmark statement(s)/professional, regulatory and statutory body guidelines

The RAF Institute of Aviation Medicine developed a course in advanced aviation medicine in 1968, in collaboration with the Civil Aviation Authority and the medical departments of British Overseas Airways Corporation, to meet the requirements for the training of medical officers of the UK armed forces and civilian medical practitioners in the practice of military and civil aviation medicine (including aviation physiology, aviation life support systems, aviation psychology and clinical and civil aviation medicine). In 1970, the programme was recognised as the qualifying course for physicians to sit the examination for the Diploma in Aviation Medicine of the Faculty of Occupational Medicine of the Royal College of Physicians (London).

This advanced aviation medicine course which was named the Course for the Diploma in Aviation Medicine (DAvMed) was held at the RAF Institute of Aviation Medicine in the first six months of...
each year from 1970 to 1998. With the closure of the Institute the DAvMed Course was transferred to King’s College, London in 1999.

The DAvMed Course is held at King’s in the first six months of each year. The Course is directed by King’s and conducted in collaboration with the RAF Centre of Aviation Medicine, the Civil Aviation Authority, the Health Services of British Airways and specific Royal Air Force, Royal Navy and Army Aviation Units. Although King’s College is responsible for the organisation, content and financial aspects of the DAvMed course it is conducted to a syllabus issued by the Faculty of Occupational Medicine, RCP and the examination for the Diploma is an examination of the Faculty of Occupational Medicine.

The Physiology Department of King’s College developed an MSc Aviation Medicine programme in 1998 which was built around the DAvMed course (which was termed the Advanced Aviation Medicine Course Unit in this context). This MSc programme comprised a course unit in Research Techniques in Human Physiology (which was virtually identical to a course unit of the MSc Human and Applied Physiology Programme); the Advanced Aviation Medicine Course unit and an Aviation Medicine Project Course Unit. Four students took the MSc Aviation Medicine Programme in the period 1999 to 2003. The programme ceased owing to a shortage of staff in 2003.

The proposed MSC Aviation Medicine programme will include two modules (Aviation Physiology and Psychology; Clinical and Operational Aviation Medicine) which together are identical to the DAvMed course**. The aims and contents of these two modules will however be controlled by the relevant Module Approval Forms of the MSc Aviation Medicine programme. Since the contents of these two modules together fulfill the requirements of the course for the DAvMed students who attend the MSc Aviation Medicine programme will be qualified to sit the examination for the DAvMed of the Faculty of Occupational Medicine, RCP.

**and which are proposed as the components of a new nested award – ‘Certificate in Aeromedical Science’

19. Programme structure and award requirements (where relevant the information should also differentiate the particular requirements of pathways within a programme or nested/exit awards)

(a) numbers of introductory, core, compulsory and optional modules to be taken in each year of the programme with related credit values

MSc - 5 core modules
Nested Award (Certificate in Aeromedical Science) – 2 core modules

(b) range of credit levels permitted within the programme
7

(c) maximum number of credits permitted at the lowest level
180
Nested award - 90

(d) minimum number of credits required at the highest level
180
Nested award - 90

(e) progression and award requirements (if different from the standard)
standard

(f) maximum number of credits permitted with a condoned fail (core modules excluded)
0
(g) are students permitted to take a substitute module, as per regulation A3, 20.7?
n/a

(h) other relevant information to explain the programme structure
Students can complete the MSc over the course of 1 year as full time students or elect to undertake the programme components during different years as part-time students.

Nested award – this component is full time. Students are required to take and pass the following 90 credits: Aviation Physiology and Psychology (7BBLM010) and Clinical and Operational Aviation Medicine (7BBLM011).

Please now complete the programme structure table, available in Excel from the Policy Zone, “Forms” section
### Programme structure

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit level</th>
<th>Credit value</th>
<th>Status (I, C, O) for each type of programme</th>
<th>Progression</th>
<th>Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>7BBLM004</td>
<td>Cardiovascular and Respiratory Physiology from rest to exhaustive exercise</td>
<td>7</td>
<td>30</td>
<td>Cr</td>
<td>Yes</td>
<td>60% unseen examination, 20% presentation, 20% lab work</td>
</tr>
<tr>
<td>7BBLM010</td>
<td>Aviation Physiology and Psychology*</td>
<td>7</td>
<td>45</td>
<td>Cr</td>
<td>Yes</td>
<td>80% unseen examination, 20% course work</td>
</tr>
<tr>
<td>7BBLM011</td>
<td>Clinical and Operational Aviation Medicine*</td>
<td>7</td>
<td>45</td>
<td>Cr</td>
<td>Yes</td>
<td>80% unseen examination, 20% course work</td>
</tr>
<tr>
<td>7BBLM012</td>
<td>Library Project in Aviation Medicine</td>
<td>7</td>
<td>15</td>
<td>Cr</td>
<td>Yes</td>
<td>80% essay, 20% Poster presentation</td>
</tr>
<tr>
<td>7BBLM013</td>
<td>Research Project in Aviation Medicine</td>
<td>7</td>
<td>45</td>
<td>Cr</td>
<td>Yes</td>
<td>80% dissertation, 20% presentation</td>
</tr>
</tbody>
</table>

* components of nested award – Certificate in Aeromedical Science

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### 20. Marking criteria
The guideline criteria in the table below are for assessing essays and examinations, but are applied generally to all forms of assessment.

As per the School of Biomedical Sciences marking and assessment criteria.

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Admissions</td>
<td>All students in receipt of an offer receive an information booklet on the support services offered by the College. All students receiving offers who have indicated they have a disability in their application receive a letter from the School Disability Adviser with her contact details and offering the applicant the opportunity to discuss their requirements. They are also invited to complete and return a ‘Support Details Form’ to outline the support they require so that this can be put in place prior to their arrival.</td>
</tr>
<tr>
<td>Publicity and Course Booklets</td>
<td>These clearly communicate the key skills that will be required during the programme, the content of each module, the intended teaching methods to be used and module status (core/compulsory/optional).</td>
</tr>
<tr>
<td>Teaching Methods</td>
<td>A wide range of teaching methods is utilised (as demonstrated by box 17).</td>
</tr>
<tr>
<td>Assessment</td>
<td>Advice has been taken from the Equality &amp; Diversity Department to ensure assessment methods do not unfairly discriminate against students with disabilities. The College’s Special Examination Assessment Committee (SEAC) considers requests for adjustments to assessment to take account of learning and/or physical disabilities. Module outlines specify the assessment methods that will be used and explain that SEAC will need to be notified about requests for alternative assessment methods. The form that the alternative assessment will take has been specified for each module in advance.</td>
</tr>
<tr>
<td>Feedback</td>
<td>Feedback on the programme is regularly collected from students about their learning experience. The information collected is used towards the on-going development and improvement of the programme. In particular, it has prompted closer working with IT to ensure that subject resources are offered in a range of alternative formats wherever possible.</td>
</tr>
</tbody>
</table>
Not all of the information in this section will be relevant for all programmes and for some programmes this section will not be relevant at all

1. **Programme name**

MSc Aviation Medicine

2. **If the programme is a joint award with an institution outwith the University of London has the necessary approval been sought from Academic Board?**

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
<th>Not applicable</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

   Please attach a copy of the request to Academic Board

3. **In cases of joint honours programmes please provide a rationale for the particular subject combination, either educational or academic**

   N/A

   Which is the lead department and/or School?

4. **If the programme involves time outside the College longer than a term, please indicate how the time will be spent, the length of time out and whether it is a compulsory or optional part of the programme**

<table>
<thead>
<tr>
<th>Year abroad</th>
<th>Year in employment</th>
<th>Placement</th>
<th>Other (please specify)</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

   All students will be based at the RAF Centre of Aviation Medicine (CAM), Royal Air Force, Henlow for 10 weeks of the programme where they will be accommodated in the Officer’s Mess at RAF Henlow. In addition 1 or 2 students may also conduct their Research Project at RAF CAM which will involve spending a further 5 to 9 weeks at the Centre.

5. **Please provide a rationale for any such time outside the College, other than that which is a requirement of a professional, regulatory or statutory body**

   This programme will include 10 compulsory weeks at the RAF Centre of Aviation Medicine (CAM) as the Centre provides an excellent base for the visits which will be made to service and civilian establishments. The Centre also provides unique practical facilities which will be used by the students. Many of the RAF specialists who will teach the programme are based at or near RAF CAM, which will reduce the travel costs of these lecturers which are paid by the College.

   The unique facilities of RAF CAM such as hypobaric and hyperbaric thermal chambers, advanced respiratory and cardiovascular research equipment, spatial disorientation, noise measurement, night vision, accident investigation, helmet test, cockpit workspace, library and computing facilities will support the conduct of Research Projects in Aviation Medicine.

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6. Please give details if the programme requires validation or accreditation by a professional, regulatory or statutory body

N/A

7. In cases where parts or all of the programme (other than those in box 4 above) are delivered either away from one of the College campuses and/or by a body or bodies external to the College please provide the following details

The programme will include one to five day visits to external organisations where the students will be given lectures on, practical experience and demonstrations of relevant aviation stresses and the practice of aviation medicine.

Name and address of the off-campus location and/or external body and amount of the programme delivered off-campus or by external body

A. Visits longer than 1 day -

1. RAF Centre of Aviation Medicine (10/19 weeks)
   Royal Air Force Henlow
   Bedfordshire
   SG16 6DN

2. Medical Department (3 days)
   Civil Aviation Authority
   Aviation House
   Gatwick

3. Health Services (3 days)
   British Airways
   Waterside

4. RAF School of Combat Survival and Rescue (5 days)
   Royal Air Force St Mawgan
   Cornwall

5. Headquarters Army Aviation (2 days)
   Middle Wallop
   Hampshire
   SO20 8DY

B. Visits of ½ or 1 day –

6. Qinetiq (three 1 days)
   Human Protection and Performance Enhancement
   Cody Technology Park
   Ively Road
   Farnborough
   Hampshire
   GU14 0LX

7. Officer and Aircrew Selection Centre (1 day)
<table>
<thead>
<tr>
<th>Programme approval 2008/9</th>
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<tbody>
<tr>
<td>Royal Airforce College</td>
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<tr>
<td>RAF Cranwell</td>
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<tr>
<td>8. London Air Traffic Control (Military) (1 day)</td>
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<tr>
<td>National Air Traffic Service</td>
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<tr>
<td>Swanick</td>
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<tr>
<td>9. Martin Baker Aircraft Company (1 day)</td>
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<tr>
<td>Higher Denham</td>
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<tr>
<td>Near Uxbridge</td>
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<td>Middlesex</td>
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<td>UB9 5AJ</td>
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<tr>
<td>10. Royal Navy Air Station (1/2 day)</td>
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<tr>
<td>Yeovilton</td>
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<tr>
<td>Somerset</td>
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<td></td>
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<tr>
<td>11. RAF CAM Flight (1 day)</td>
</tr>
<tr>
<td>QinetiQ</td>
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<tr>
<td>Boscombe Down</td>
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<tr>
<td>Wiltshire</td>
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<tr>
<td>12. RAF No 3 Flying Training School (1 day)</td>
</tr>
<tr>
<td>Royal Air Force Cranwell</td>
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<tr>
<td>13. Westland Helicopters (1/2 day)</td>
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<tr>
<td>Yeovil</td>
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<tr>
<td>Somerset</td>
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<td></td>
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<tr>
<td>Nature of involvement of external bodies –</td>
</tr>
<tr>
<td>1. RAF Centre for Aviation Medicine</td>
</tr>
<tr>
<td>The involvement of RAF CAM will be three fold. Firstly, it will provide the ‘home’ and support facilities for 10 weeks of the module. Secondly, it will provide the facilities lecture room, visual aids etc for visiting lecturers. All the latter will be selected and appointed by the Module Organiser. Thirdly, the members of the staff of RAF CAM will provide the tuition listed below. The members of the staff of RAF CAM who will conduct this tuition will be approved by the Module Organiser in consultation with the officer commanding the Aviation Medicine Wing, RAF CAM.</td>
</tr>
<tr>
<td>1) Personal experience of hypoxia in hypobaric chamber</td>
</tr>
<tr>
<td>2) Personal experience of pressure breathing</td>
</tr>
<tr>
<td>3) Demonstration of aircraft oxygen equipment</td>
</tr>
<tr>
<td>4) Practical – measurement of noise</td>
</tr>
<tr>
<td>5) Personal experience of spatial disorientation</td>
</tr>
<tr>
<td>6) Practical – use of Night Vision Goggles</td>
</tr>
<tr>
<td>7) Practical – anthropometric measurement</td>
</tr>
<tr>
<td>8) Cockpit ergonomics</td>
</tr>
<tr>
<td>9) Aircrew equipment: integration and wearing</td>
</tr>
<tr>
<td>10) Ejection and parachute systems</td>
</tr>
<tr>
<td>11) Aviation pathology</td>
</tr>
<tr>
<td>12) Aeromedical investigation of aircraft accidents</td>
</tr>
<tr>
<td>13) Experience in Spatial Disorientation Familiarisation Devices</td>
</tr>
<tr>
<td>14) Practical ENT problems in aviation</td>
</tr>
</tbody>
</table>
2. Medical Department, Civil Aviation Authority
   The staff of the Medical Department will provide lectures on
   1) The regulation of and the support given by the CAA to the practice of civil
      aviation medicine
   2) Medical Licensing standards and procedures
   3) The roles of the Aviation Medicine Centre and the Aviation Medical Examiner
   4) Aviation medicine practice in relation to civilian aircrew with emphasis on specific
      topics such as alcohol, diabetes and risk of incapacitation in aircrew

   The students will also see the equipment, staff and work of an Aviation
   Medicine Centre.

3. Health services, British Airways
   The staff of the health services will provide lectures on the flight safety and medical
   aspects of the carriage of passengers by commercial aircraft and the associated cabin
   crew, including the fitness of cabin crew for work and of passengers to fly, airline
   hygiene, infectious diseases and travel related deep vein thrombosis. The students will
   be given practical experience of the medical training of cabin crew and onboard
   medical equipment. Each student will be given personal experience of flying a flight
   simulator on a British Airways Flight Simulator.

4. RAF School of Combat Survival and Rescue
   The staff of the school which provides theoretical and practical training on survival on
   the land and in the sea for UK military aircrew will provide lectures on and practical
   experience of the use of military survival equipment and procedures including land
   survival (overnight on a moor) and sea survival (in swimming pool and the sea off the
   Cornish coast).

5. Headquarters Army Aviation
   The medical staff and army aircrew at Middle Wallop will provide lectures, seminars
   and practical demonstrations of the aviation medicine aspects of military helicopter
   operations. Each student will also fly in a Squirrel helicopter and experience spatial
   disorientation in flight.

6. QinetiQ
   1) Personal experience of +Gz acceleration on man carrying centrifuge
   2) Personal experience of whole body vibration on vibrator
   3) Personal experience of spatial orientation/disorientation

7. Officer and Aircrew Selection Centre, RAF Cranwell
   Psychological, aptitude and medical aspects of selection of military aircrew.

8. London Air Traffic Control Centre
   The work environment and tasks of the air traffic controller.

9. Martin Baker Aircraft Company
   The design, testing and manufacture of ejection seats for military aircraft.

10. RNAS Yeovilton
    The staff of the Royal Navy Dunker which provides training in under-water escape
    from an inverted helicopter for all MoD aircrew and passengers will provide practical
    experience of this procedure for each student.

11. RAF CAM Flight, Boscombe Down
The two pilots (RAF and USAF) and support staff of the Flight will explain and
demonstrate the work of the flight which comprises two Hawk aircraft including the
Desensitisation programme for motion sickness aircrew and the inflight assessment of
life support equipment under development for the RAF. The aircrew of the Empire Test
Pilots School will demonstrate the cockpits of military aircraft.

12. RAF No 3 Flying Training School
The staff of the School will explain and demonstrate the initial and advanced flying
training of RAF aircrew. Each student will fly in a RAF aircraft when training
procedures will be demonstrated.

13. Westland Helicopters
The occupational physician and staff of the firm will explain the work of Westland
Helicopters and the occupational medicine aspects of the manufacture of helicopters.
The students will visit the production facility.

Descriptions of learning resources available at the off-campus location

1. RAF Centre for Aviation Medicine
Large, fully equipped lecture theatre dedicated to the module and the DAvMed
Course. Very extensive aviation medicine and occupational medicine library with on-
line facilities and full-time librarian. Equipment, staff and MoD approved training
procedures for exposures to altitude including hypobaric and hyperbaric chambers;
for experience of pressure breathing, spatial disorientation, night vision devices,
noise measurement, anthropometric measurement, accident investigation and cockpit
ergonomics. Very good learning and social facilities for students.

2. Medical Department CAA
Well equipped lecture room. Central UK Aeromedical Centre with facilities for
extensive assessments of medical fitness of aircrew to fly.

3. Health Services, British Airways
Well equipped lecture room. Extensive cabin crew training facilities with an aircraft
cabin escape simulator, on board medical equipment including External
Defibrillators. Flight Simulator.

4. RAF SCSR
Well equipped lecture rooms. Full facilities and equipment (in swimming pool and the
sea), for personal experience of:- parachute drills, flotation devices, immersion suits,
single and multi-seat dinghies and winching from the sea into a helicopter. Overnight
personal experience of land survival on moorland. All training supervised and
conducted by experienced RAF training staff.

5. Headquarters Army Aviation
Well equipped lecture rooms. Army Air Corps helicopters on airfield. Personal
experience of flight in Squirrel helicopters conducted by AAC pilots.

6. QinetiQ
Man carrying centrifuge equipped with G protective systems, closed circuit television
monitoring and physiological monitoring. Neurokinetic chair and Norris turntable.
Recording of eye movements (ENG). Whole body vibrator with measurement of visual
acuity and body resonance.

7. Officer and Aircrew Selection Centre, RAF Cranwell
Aircrew physical fitness, aptitude and medical selection facilities.
8. London Air Traffic Control Centre
   Air Traffic Control training and operations rooms.

9. Martin Baker Aircraft Company
   Ejection seat design, testing and manufacturing facilities.

10. RNAS Yeovilton
    A fully equipped under-water helicopter escape training facility (‘Dunker’) with a
    helicopter fuselage which can be lowered into a water pool and inverted. Procedures
    taught and supervised by experienced RN personnel.

11. RAF CAM Flight, Boscombe Down
    RAF CAM test flying facilities and Hawk aircraft. Ground facilities for treatment of
    motion sick aircrew. Aircraft of the Empire Test Pilot School.

12. RAF Tactical Medical Wing
    Aircraft and ground support facilities for aeromedical transport of ill and injured
    personnel.

13. RAF No 3 Flying Training School
    Aircraft of No 3 FTS. Flight experience in RAF Training aircraft conducted by RAF
    Flying Instructors.

14. Westland Helicopters
    Well equipped meeting room. Helicopter manufacturing and flight testing facilities.

What mechanisms will be put in place to ensure the ongoing monitoring of the delivery
of the module?

1. RAF Centre of Aviation Medicine
   Content and quality of the contributions to the module are controlled by and will be
   reviewed annually by the Module Organiser and the officer commanding the
   Aviation Medicine Wing who is a Visiting Professor at King’s College London.

2. Medical Department CAA
   Content and quality of the contributions to the module will be controlled by and will
   be reviewed annually by the Module Organiser in association with the local organizer
   of the visit.

3. Health Services, British Airways
   Content and quality of the contributions to the module will be controlled and
   reviewed annually by the Module Organiser in association with the Head of
   Health Services, British Airways.

4. RAF SCSR
   The details of the contents of this course will be determined by the SCSR. They will be
   based upon the appropriate aircrew survival training courses which are conducted by
   the School. The contents will be reviewed annually by the Module Organiser.

5. Headquarters Army Aviation
   Content and quality of the contributions to the module will be controlled by the
   Consultant Adviser in Aviation Medicine (Army) and will be reviewed annually by the
   Module Organiser.
6. QinetiQ
Experience on the human carrying centrifuge will be conducted by a RAF Consultant in Aviation Medicine who is Visiting Senior Lecturer at King’s College. Practicals on spatial orientation/disorientation and whole body vibration will be conducted by the physician who lectures on these topics at King’s College. The contract which defines the tuition provided at QinetiQ will be reviewed annually by the Module Organiser.

7 & 8. Officer and Aircrew Selection Centre RAF Cranwell and London Air Traffic Control Centre
Content and quality of the contributions to the module are controlled by and will be reviewed annually by the Module Organiser and the Professor in Aviation Psychology at Cranfield University.

9. Martin Baker Aircraft Company
Content and quality of the contribution to the module will be reviewed annually by the Module Organiser.

10. RNAS Yeovilton
Content and quality of this contribution to the module will be controlled by the Royal Navy.

11. RAF CAM Flight, Boscombe Down
Content and quality of this contribution to the module will be controlled by the Consultant Adviser in Aviation Medicine (RAF) and will be reviewed annually by the Module Organiser.

12. RAF No 3 Flying Training School
Content and quality of this contribution to the module will be controlled by the Officer Commanding No 3 FTS and will be reviewed annually by the Module Organiser.

13. Westland Helicopters
Content and quality will be controlled by the Occupational Physician, Westland Helicopters and will be reviewed annually by the Module Organiser.

The local supervisor of an Aviation Medicine Research Project conducted at RAF CAM will be an appropriate RAF Consultant in Aviation Medicine who will in addition to his medical degree have the Diploma in Aviation Medicine and a PhD degree.