

PROGRAMME SPECIFICATION – POSTGRADUATE PROGRAMMES

KEY FACTS

Programme name	Aircraft Maintenance Management
Award	MSc
School	Mathematics, Computer Science and Engineering
Department or equivalent	Mathematics, Computer Science and Engineering
Programme code	PSPAMM
Type of study	Part Time
Total UK credits	180
Total ECTS	90
Partner (partnership programmes only)	
Type of partnership	

PROGRAMME SUMMARY

MSc Aircraft Maintenance Management is for experienced aviation industry personnel who wish to enhance their career progression in the maintenance management field, by improving their knowledge of the complex disciplines required to enable full understanding of the various technical, operational and financial pressures impacting on flight operations.

This is a mid-career education for those involved in the air transport industry. It aims to provide those employed in a professional capacity in aircraft maintenance and wishing to move into management to enable them to make a greater contribution to their organisation. A key feature of the course is the development of shared values since, for many students, it is the first time in their careers that they will meet and work with other professions within the industry.

Postgraduate Certificate in Aircraft Maintenance Management and Postgraduate Diploma in Aircraft Maintenance Management

PG Certificate or PG Diploma may be awarded to students who do not wish to complete the MSc course but have gained sufficient credit as defined by the Assessment Regulations (see below). This is most usually taken by students who have completed an MSc in one topic and wish to add a specialisation.

The PG Certificate in Aircraft Maintenance Management gives students a background to the worldwide air transport industry. PG Diploma gives students an extended repertoire of skills needed enabling them to move productively and effectively onto the first steps of commercial or maintenance management.

MSc in Aircraft Maintenance Management

For an MSc, students must pass eight modules and the Induction Workshop over one to five years. Students are also required to undertake a project in an air transport related subject as a part of Project module EPM860.

The full MSc in Aircraft Maintenance Management gives students a thorough background to the worldwide air transport industry providing an opportunity to explore an

aspect of Aircraft Maintenance Management in depth through the literature and empirical evidence and to make related and well founded recommendations

This MSc course has close links with the MSc Air Safety Management course (PSASM) and the MSc in Air Transport Management (PSATRM) and many modules are common. Students who have already completed one of the MSc are eligible to further study for the Postgraduate Diploma by completing 120 credits from the taught Programme (Modules already taken may not be taken again or counted towards the second Degree).

Aims

- To educate the professional so that they may take managerial responsibility with confidence and with the ability to succeed.
- To provide employers with suitable talent for managerial positions in aircraft engineering and related organisations.
- To satisfy the requirements of the Royal Aeronautical Society Accreditation

WHAT WILL I BE EXPECTED TO ACHIEVE?

On successful completion of this course, you will be expected to be able to:

Knowledge and understanding:

- Evaluate the interaction of all the major components of the air transport industry (e.g. organisations, governments, airlines, alliances, airports Regulatory Authorities, suppliers, manufacturers, staff, unions etc) particularly with respect to aircraft maintenance

Skills:

- Critically appraise regulatory, economic, professional and political information from various sources throughout the air transport industry
- Propose airline operation and management strategies using computer simulation tools
- Produce notes to a professional standard for readers from all background
- Assess safety as the over-riding objective within the air transport Industry
- Recognise that qualities and knowledge of an airline professional (e.g. pilot) are readily transferable worldwide
- Present information in oral and written form to all levels and backgrounds throughout an international organisation.
- Value communication as a central requirement for an efficient and safe organisation
- Formulate solutions to problems within a multi disciplinary and multicultural society
- Critically appraise the information during the module

Values and attitudes:

- Value the contribution made by each professional group.
- Recognise that this is the largest multi-cultural industry in the world and that performance must transcend national barriers

This course has been developed in accordance with the QAA Subject Benchmark for Generic Masters Level Courses

HOW WILL I LEARN?

The course involves a variety of teaching methods including lectures and tutorials requiring attendance plus breakout sessions. These will involve group work and presentations. Case studies may be circulated for study in the evening and discussion the next day. A leading lecturer and a number of specialist lecturers from industry teach each module over an intensive 3-day period. During each module, students are required to work in small teams to examine the relevant issues and to present results. Each module has been designed to develop a specific skill in the student.

For every Module, you are given a Module Handbook containing the PowerPoint presentations, relevant papers and other material. There is space for students to annotate with their own notes. Each of the substantial module handbooks contains information relevant to that module and students are expected to re-read the material after the module. In all, you have 8 Module and an Induction Handbooks and can buy text books as required.

It is a requirement of this Course that students attend, in full, all hours of each taught module unless given specific dispensation by the Course Director. Assessment of the taught modules is undertaken through a combination of the following elements:

1. Coursework "A" evaluates the core knowledge of the student in the module topic.
2. Coursework "B" aims to demonstrate the application of the work of the specific module to their own organisation (or, if this is not possible, another organisation with which they are familiar). The student's critical abilities are developed, in particular to understand why organisations may have strengths and weaknesses and how these can reasonably be improved or strengthened.
3. Examinations, each lasting 90 minutes, are specifically designed to test:
 - The knowledge gained in the module.
 - The ability of the student to distil large quantities of information into succinct but correct format.
 - The ability to produce correct results under time pressure.

This is an induction workshop, plus eight-module plus project course, with students taking three compulsory modules (the induction workshop is also compulsory) and the balance (five modules) coming from an elective module list. The course is designed to take advantage of the existing MSc Air Transport Management (ATM) and Aircraft Safety Management (ASM) degrees, both by following their structure, and by using some of their existing modules.

The major dissertation is also undertaken by all students on the MSc Aircraft Maintenance Management Course. It is assessed by three Examiners reading the report and by holding a Viva. It tests your ability to bring together and understand information from many sources and to respond and defend to intense questioning from senior industry staff. Non-timetabled lecturer / student contact is encouraged during the project and it is normal for students to involve their present or future employer.

WHAT TYPES OF ASSESSMENT AND FEEDBACK CAN I EXPECT?

Assessment and Assessment Criteria

You are assessed by completing a 1,500 to 2,000-word piece of individual coursework for every module you take. The Induction Workshop is assessed by completing a 2,500 to 3,000-word piece of individual coursework, serving also as the final acceptance assessment for the MSc Programme. Compulsory modules are assessed by the completion of one piece of coursework plus an examination. Elective modules are assessed by two pieces of coursework. All students taking the MSc must also complete an individual project in an appropriate subject, totalling between 10,000 and 15,000 words. This is examined by the written submission and by a Viva for all students.

Assessment Criteria are descriptions, based on the intended learning outcomes, of the skills, knowledge or attitudes that you need to demonstrate in order to complete an assessment successfully, providing a mechanism by which the quality of an assessment can be measured.

Grade- Related Criteria are descriptions of the level of skills, knowledge or attributes that you need to demonstrate in order to achieve a certain grade or mark in an assessment, providing a mechanism by which the quality of an assessment can be measured and placed within the overall set of marks. Assessment Criteria and Grade-Related Criteria will be made available to you to support you in completing assessments. These may be provided in Course handbooks, module specifications, on the virtual learning environment or attached to a specific assessment task.

Feedback on assessment

Feedback is provided on all coursework to help you improve your marks on later assignments.

Feedback will be provided in line with our Assessment and Feedback Policy. In particular, you will normally be provided with feedback within three weeks of the submission deadline or assessment date. This would normally include a provisional grade or mark. For end of module examinations or an equivalent significant task (e.g. an end of module project), feedback will normally be provided within four weeks. The timescale for feedback on final year projects or dissertations may be longer. The full policy can be found at:

https://www.city.ac.uk/_data/assets/pdf_file/0008/68921/assessment_and_feedback_policy.pdf

Assessment Regulations

In order to pass the Course, the student should complete successfully or be exempted from the relevant modules and assessments and will therefore acquire the required number of credits.

The pass mark for each module is 50%.

If you fail an assessment component or a module, the following will apply:

1. Compensation: where you fail up to a total of 20 credits at first or resit attempt, you may be allowed compensation if:
 - Compensation is permitted for the module involved (see the What will I Study section of the programme specification), and
 - It can be demonstrated that you have satisfied all the Learning Outcomes of the modules in the Course, and
 - A minimum overall mark of no more than 10% below the module pass mark has been achieved in the module to be compensated, and
 - An aggregate mark of 50% has been achieved overall.

Where you are eligible for compensation at the first attempt, this will be applied in the first instance rather than offering a resit opportunity.

If you receive a compensated pass in a module you will be awarded the credit for that module. The original component marks will be retained in the record of marks and your original module mark will be used for the purpose of your Award calculation.

2. Resit: Where you are not eligible for compensation at the first attempt, you will be offered one resit attempt.

If you are successful in the resit, you will be awarded the credit for that module. The mark for each assessment component that is subject to a resit will be capped at the pass for the module. This capped mark will be used in the calculation of the final module mark together with the original marks for the components that you passed at first attempt.

If you do not meet the pass requirements for a module and do not complete your resit by the date specified you will not progress and the Assessment Board will require that you be withdrawn from the Programme.

If you fail to meet the requirements for the Programme, the Assessment Board will consider whether you are eligible for an Exit Award, as per the table below.

If you would like to know more about the way in which assessment works at City, please see the full version of the Assessment Regulations at:
http://www.city.ac.uk/_data/assets/word_doc/0003/69249/s19.doc

WHAT AWARD CAN I GET?

Master's Degree:

	HE Level	Credits	Weighting (%)
Taught	7	120	67
Dissertation	7	60	33

Class	% required
With Distinction	70
With Merit	60
Without classification	50

Postgraduate Diploma:

Part	HE Level	Credits	Weighting (%)
Taught	7	120	100

Class **% required**

With Distinction	70
With Merit	60
Without classification	50

Postgraduate Certificate:

Part	HE Level	Credits	Weighting (%)
Taught	7	60	100

Class **% required**

WHAT WILL I STUDY?

Taught

Students must take a total of eight modules and induction workshop as follows:

Induction Workshop – assessed by one coursework only – no credits. Students are required to pass this assessment in order to progress on to the programme.

Three ‘Compulsory’ modules. - Compulsory modules are assessed by examination and Coursework ‘A’ – 15 credits

Five ‘Elective’ modules – Elective modules are assessed by coursework A and coursework B – 15 credits.

This structure ensures that each student achieves the required credit, depth and breadth of knowledge and understanding but yet provides the student with a flexibility to deepen their knowledge in areas most suitable to their needs.

The course is designed to take advantage of the existing MSc ASM/ATM degrees, both by following their structure, and by using some of their existing modules.

Module Title	SITS Code	Module Credits	Compulsory/ Elective	Can be Compensated?	Level
Induction Workshop	EPM977	0	C	N	7
Airline Operational Regulatory Compliance Project	EPM825	15	C	N	7
Airworthiness	EPM860	60	C	N	7
Airline Maintenance	EPM897	15	C	N	7
Airline Operations	EPM906	15	C	N	7
	EPM820	15	E	N	7

Marketing	EPM821	15	E	N	7
Human Resource Management	EPM822	15	E	N	7
Air Transport Economics	EPM823	15	E	N	7
Financial Accounting	EPM824	15	E	N	7
Crisis Management	EPM828	15	E	N	7
Airline Fleet Planning	EPM829	15	E	N	7
Airline Business	EPM831	15	E	N	7
Safety Management - Tools and Methods	EPM833	15	E	N	7
Active Safety Management	EPM836	15	E	N	7
Psychology in Aviation Management	EPM966	15	E	N	7
Airport Ground Handling	EPM968	15	E	N	7
Developing a Business Plan	EPM969	15	E	N	7
Air Accident Investigation	EPM970	15	E	N	7
Leadership in Organisations	EPM971	15	E	N	7
Airline Revenue Management and Finance	EPM972	15	E	N	7
Safety Risk Management	EPM973	15	E	N	7
Sustainable Aviation	EPM975	15	E	N	7
Review of Quality, Safety and Aviation Business Functions	EPM976	15	E	N	7
Future Aviation Challenges – from Unmanned to Spaceflight Vehicles	EPM980	15	E	N	7

Dissertation

Module Title	SITS Code	Module Credits	Compulsory/ Elective	Can be Compensated?	Level
Project	EPM860	60	C	N	7

You are not normally required to pass all taught modules before progressing to the dissertation.

TO WHAT KIND OF CAREER MIGHT I GO ON?

Graduate Destinations

- Licenced Engineer, Emiri Flight Abu Dhabi
- Project Superintendent, Kuwait Airways
- Engineering Manager, Air Canada
- Performance Engineer, Air Botnia, Finland
- Chief Engineer, Flying Wing, Bahrain
- Dept. Head Eng Licencing, CAA, Gatwick
- Engineer, Air Zimbabwe

- Shift Manager, BA, Gatwick
- Quality Engineering Manager, Shannon Aerospace
- De-icing Superintendent, Finnair
- Dept Head, Uganda CAA
- Chief Engineer, United Eagle Airways, Shuangliu, China
- Senior Investigator, Airclaims, LHR
- Superintendent Engineer, Tanzania Airways
- SVP Tech. Ops, GE Commercial Finance Aviation, Asia
- Engineering Manager, Precisionair, Tanzania
- Dept Head of Safety, Tanzania CAA
- Engineering Consultant, Portugal
- Head Engineering Licencing CAA, Gatwick
- Service Engineer Rolls Royce Commercial Engines
- Chief Engineer, Cyprus Police Air Wing
- Airbus Manager, Emirates
- Inspector, Tanzanian CAA
- Manager Quality and Standards, CAA
- Engineer, Kenya Airways, Amsterdam
- Engineering Consultant, Nigeria
- Licenced Engineer, Cyprus Airways
- Engineering Manager Cathay Pacific Express , Hong Kong
- Safety Engineer, RAF
- Powerplant Engineer, Thomas Cook Airlines , Manchester
- Engineering Analyst, Boeing, Seattle, USA
- Air Safety Inspector, BA
- Engineering Manager, Netherlands
- Chief Engineer, Brunei Shell

If you would like more information on the Careers support available at City, please go to: <http://www.city.ac.uk/careers/for-students-and-recent-graduates>.

WHAT STUDY ABROAD OPTIONS ARE AVAILABLE?

Modules are delivered in London, Dubai, Frankfurt and Bahrain. Delivery of all Modules is identical where-ever they are delivered and students can attend at different locations should they so wish.

WHAT PLACEMENT OPPORTUNITIES ARE AVAILABLE?

All students must be employed within the Air Transport or related industries whilst studying so placements are not applicable.

WILL I GET ANY PROFESSIONAL RECOGNITION?

Accrediting Body: Royal Aeronautical Society

Nature of Accreditation:

Having attained the MSc Aircraft Maintenance Management, holders will be eligible for

part exemption when applying for Corporate Membership of the RAeS.

Continuous and detailed review is by the Education Committee of The Honourable Company of Air Pilots (formerly known as GAPAN).

HOW DO I ENTER THE COURSE?

Relevant degree 2:1 or above (normally) or Air Transport Pilots Licence (ATPL) under JAA or FAA regulations or Aircraft Licenced Engineer (ALE) under JAA regulations or Air Traffic Control Licences (normally training and/or Area Licences required). A relevant HND usually at merit level may be accepted as an alternative to the other entry qualifications. In special cases, candidates with employer support of significant work place responsibility, other academic qualifications will be considered. In all cases, it is a normal requirement of entry that students are currently employed in the Air Transport industry (e.g. airlines, maintenance organisations, regulators ATC, air forces, airports etc). Exceptions can be made: for example where an applicant with relevant experience has lost his/her licence for medical reasons.

Candidates will first complete an Induction Workshop (EPM977) with entry points 4 times per calendar year. Every candidate must take an entry assessment so that the Course Director can assess their suitability and they can assess whether they will be able to devote enough effort to complete the course. The entry assessment is by attendance of the Induction workshop (EPM977) and completion of one piece of Coursework on a general aviation topic. The marks from this coursework do not count towards the final award but those who pass, will be admitted on to the MSc programme.

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