

Aerospace Operations Management

The Norton Wolf School of Aerospace, Information & Defence Technologies

AOM2 - Aerospace Operations Management

This program has been permanently suspended.

Program Description

Aerospace Operations Management is a one-year graduate certificate designed for graduates of engineering programs looking to gain hands-on experience with leading aerospace industry simulation and enterprise resource planning software while also developing their business communication and ethical leadership skills.

Document of Recognition

Aerospace Operations Management Graduate Certificate

Program Type/Credential

One-Year Ontario College Graduate Certificate

Learning Outcomes

1. Identify and critically assess solutions to materials supply and capacity problems to eliminate nonvalue-added activities from the supply chain, and ensure customer satisfaction.
2. Define and develop innovative aerospace product design to ensure an inclusive user experience.
3. Evaluate new and existing aerodrome operations and facilities to select and recommend strategies that maintain and enhance safety and security.
4. Develop and control aerodrome project plans and schedules using software for materials and operations management to meet organizational goals.
5. Apply Lean Six Sigma methodologies to improve the system performance and quality of the design and production of aerospace components, processes, systems and operations.
6. Manage client and stakeholder expectations through professional, clear, and timely written, verbal, and non-verbal communication of key information and updates.
7. Manage aerospace product manufacturing operations using strategies that optimize production and meet targets.
8. Make ethically sound decisions to protect consumers and maintain the organization's reputation and integrity within the aerospace corporate world.
9. Manage the scope, costs, time, and quality of aerospace projects and operations while ensuring and satisfying the needs of the customer and other stakeholders.

10. Oversee operations of Unmanned Aerial Vehicle applications within commercial and military industries in adherence to all regulations.
11. Integrate ergonomics and 'human in the loop' strategies into work processes to reduce injuries and streamline productivity and efficiency in operations.
12. Analyze and solve aerospace operations problems using technical mathematics and appropriate software.
13. Complete all work in compliance with current legislation, airworthiness standards, manufacturers' specifications, and health and safety regulations.

Career Opportunities

The aerospace industry is growing rapidly and in need of the next generation of trained graduates with the skills to aid in the management and logistics of day to day operations across the sector.

Students in the Aerospace Operations Management program will gain experience in a variety of aspects of the management of aerospace operations, including aerodrome facilities design, aircraft manufacturing and maintenance certifications, aerospace logistics and resource planning, production safety and ergonomics, aerospace projects, quality and process development and more.

Graduates of the Aerospace Operations Management program will be well-positioned for employment in the aerospace industry including positions in aircraft maintenance and repair, aircraft design engineer, quality and certifications analyst, structural assembler, industrial or manufacturing engineer, project analyst and project coordinator. The program can also lead to supervisory and management roles in operations such as maintenance operations coordinator, program coordinator and operations manager.

The program will complement existing programming in the Norton Wolf School of Aviation and Aerospace Technology, allowing for pathways or bundling options with the following program:

Aircraft Structural Repair Technician (Certificate)

Admission Requirements

Ontario College Diploma, Ontario College Advanced Diploma, Degree, or equivalent. Fanshawe College Graduates of the Aircraft Structural Repair Technician Ontario College Certificate Program will also be considered.

Approximate Costs

Fee details are available at www.fanshawec.ca/fees

Contact

The Norton Wolf School of Aerospace, Information & Defence Technologies: 519-452-4430 ext. 6370

Campus Codes and Intakes

- Program Code: AOM2
- Campus Code: LCA (LCA - London Campus Airport)
- January admission
- 30 weeks
- Academic Calendars available at www.fanshawec.ca/academicdates

Applicant Selection Criteria

Where the number of program eligible applicants exceeds available spaces, the Applicant Selection Criteria for this program will be:

1. Preference for Permanent Residents of Ontario
2. Receipt of Application by February 1st (After this date, Fanshawe College will consider applicants on a first-come, first-served basis until the program is full)
3. Achievement in the Admission Requirements

English Language Requirements

Applicants whose first language is not English will be required to demonstrate proficiency in English by one of the following methods:

- A Grade 12 College Stream or University Stream English credit from an Ontario Secondary School, or equivalent, depending on the program's Admission Requirements
- Test of English as a Foreign Language (TOEFL) test with a minimum score of 88 for the Internet-based test (iBT), with test results within the last two years
- International English Language Testing System (IELTS) Academic test with an overall score of 6.5 with no score less than 6.0 in any of the four bands, with test results within the last two years. SDS Program Requirements.
- Canadian Academic English Language (CAEL) test with an overall score of 70 with no score less than 60 in any of the four bands, with test results within the last two years
- Pearson Test of English Academic (PTE) with a minimum score of 59, with test results within the last two years
- A Cambridge English Test (FCE/CAE/CPE) with an overall score on the Cambridge English Scale of 176 with no language skill less than 169, with test results within the last two years
- Fanshawe College ESL4/GAP5 students: Minimum grade of 80% in ESL4/GAP5 Level 9 or 75% in ESL4/GAP5 Level 10

Program Pathways

For information about Program Pathways visit www.fanshawec.ca/programpathways

Program Curriculum**Level 1**

Take all of the following Mandatory courses:

BUSI-6014	Manufacturing Operations- Credits 3.5
BUSI-6013	Business Ethics & Communication- Credits 3
PROD-6001	Lean Six Sigma and Process Improvement-Credits 2.5
AVIA-6018	Aerospace Leadership & Operations-Credits 3.5
AVIA-6019	Project Management-Credits 2.5
PLAN-6004	Aerospace Logistics & Resource Planning-Credits 3.5

Level 2

Take all of the following Mandatory courses:

AVIA-6021	Aircraft Certification & Operations-Credits 2.5
DESG-6008	Aerospace Product Design & Development-Credits 3.5
AVIA-6017	Industrial Work Systems & Measurement-Credits 3
AVIA-6020	Unmanned Aerial Vehicle Applications-Credits 3
DESG-6007	Aerospace Facilities Design, Operations-Credits 3
ERGO-6010	Production Safety & Ergonomics-Credits 2.5