

Position Profile

AVIONICS ENGINEER – AUTHORIZED PERSON

Reporting

The Avionics Engineer – Authorized Person reports directly to the Director of Engineering. Matters related to Transport Canada (TC) delegate functions will be overseen by the Chief Authorized Person.

Core Competencies

- Advanced understanding of Aircraft Certification Requirements
- Experience with Aircraft Safety Analysis
- Team player with excellent interpersonal skills
- Effective written and verbal communication skills
- Effective use of aerospace/electrical engineering principles
- Engineering decision-making and judgement
- Critical thinking and risk management
- Problem solving and mathematical reasoning
- Effective planning and project organizing
- Computer literacy with Microsoft Office and AutoCAD

Duties & Responsibilities

- Responsible for certification of avionics/electrical equipment and systems in Part 23/25/27/29 aircraft.
- Make findings of compliance against avionics/electrical certification standards within the TC scope of delegation.
- Review and approve design, operation, and engineering documents.
- Conduct Engineering Conformity Inspections.
- Witness ground and flight certification tests.
- Ensure all design and administrative paperwork related to project certification is maintained in accordance with the company DAPM and Engineering Procedures Manual.
- Liaise with TC and/or foreign CAA staff as required.
- Liaise with customers and suppliers as the technical contact when required.
- Support other departments such as MRO, Avionics, Sales, and Customer Support.
- Mentor junior design/engineering staff to assist their knowledge and skills growth.
- Other duties as assigned by the Director of Engineering or Chief AP.

Key Performance Indicators

- Adherence to regulatory requirements and company policies.
- Maintenance of the necessary knowledge and technical competency required to carry out assigned tasks.
- Ability to communicate effectively and constructively with colleagues and customers.
- Ability to maintain a high level of productivity without sacrificing quality.
- Ability to demonstrate good judgment and decision making.

Powering Simplicity in Aviation

- Ability to identify, analyze, and solve technical and regulatory problems.
- Ability to project a professional appearance and demeanor in all interactions and represent the company in a positive light.
- Ability to manage project tasks in a logical and organized fashion with clear documentation.

Qualifications

- Currently, or within the previous 12 months, hold a TC airworthiness delegation (AP within another company or DAR) and be eligible to be delegated as an avionics/electrical AP within the Avmax DAO.
- Bachelor's degree in aerospace or electrical engineering (other qualifications may be considered).
- Advanced job-related degrees an asset.
- P. Eng or equivalent in a related engineering field preferred.
- Possess a strong knowledge of aircraft certification procedures.
- Possess a strong knowledge of avionics and electrical systems.
- Familiar with FAR part 23 and 25 aircraft. Part 27 and 29 helicopters is an asset.
- Must be computer literate and proficient in Microsoft Office suite. CAD software is an asset (AutoCAD and/or SolidWorks preferred).
- Willing to travel domestically and internationally for work.
- Must be able to effectively communicate in English (both written and verbal).

Experience

- Minimum 1 year of experience as a TC delegate person.
- Minimum 7 years of aircraft certification experience with responsibilities covering the design and certification of avionics/electrical modifications.
- Minimum 10 years of related aviation engineering experience, preference given to those with recent experience with Part 25 aircraft.
- Demonstrated capability and competency in field of expertise.