



CERTIFICATION **CENTER** CANADA (3C)

Airworthiness. Flight Test. Certification.



Also: FAA, EASA, CAA, CASA and relevant DND authorities

Key Features

- TCCA-approved Independent Flight Test and Certification Design Approval Organization (DAO)
- DAO scope covers many necessary disciplines
- Services, consulting and training to optimize client path to airworthiness
- Access to relevant experts and high value test assets to lower cost
- Collaborative IP development
- Optimized compliance planning and management tools to reduce time and cost
- One-Stop-Shop for airworthiness programs in Canada

Civil & Defence Applications

- Flight Test Planning and Execution
- Outsourced Services Provision
- Outsourced Airworthiness & Certification
- Business Planning & Product Design
- Training/Mentoring Next Generation of Delegates
- Program management Services
- Complete Expert Process Training
- Tier 0 Consulting Services

Overview

3C's vision has been consistent since the first discussion with the government of Quebec in 2020 on the topic of the future needs in aerospace. The plan is in action to create and invest in a Quebec-based centre of excellence to enable the aerospace ecosystem to bring their products to market more efficiently by providing the following in one location:

- Bring together the right people
- Ensure those people have the right expertise
- Ensure the organization has the right approvals
- Provide access to expanding fleet of the right demonstration & test aircraft to undertake the flying required in a cost-effective manner, even for smaller companies
- Provide the right facilities to enable collaborative projects that utilize the above
- To provide training and mentoring to the next generation of experts in the field

The overarching objective of 3C is to become one of the world's premier aerospace technology accelerators, specializing in all aspects of airworthiness and certification. In addition, 3C (through its existing TCCA DAO) will provide a conduit between



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Traditional 3C Program Phases

Gap Analysis & Financing	Training	Certifiable Design Consulting	Delegated Certification Execution	Delegated Flight Test
<ul style="list-style-type: none"> • Time and Materials Consulting • Typically Short-term • Ends with report, cost and schedule • Can include initial cert roadmap • Can include supply chain help • Can also include help with government program R&D wins 	<ul style="list-style-type: none"> • Standard Pricing for basic training • Customizable training can be provided – extra cost • Can be in-person or remote • Can be incremental 	<ul style="list-style-type: none"> • Time and Materials NTE, renewable • Medium to long-term • Ends with Certification Roadmap and Associated Design 	<ul style="list-style-type: none"> • Scope is Variable (S/W – STC) • May include flight test (shown separately) • Can be T&M or FFP • Medium to long-term • Ends with FOCs 	<ul style="list-style-type: none"> • Typically, last minute emergency, unless as a follow-on to earlier involvement • Writing test plans, through execution of flight test and final FOC • Can be FFP, but typically T&M • Typically Medium-term • Ends with TCCA/FAA/EASA or other approval

About 3C

Flight Test Centre of Excellence, more commonly known as Certification Center Canada (3C), is the leading Canadian aerospace flight test, certification, research and development (R&D) Design Approval Organization (DAO) specializing in both traditional and emerging aerospace technology innovation.

3C, spun out of Marinvent Corporation, was conceived and set up in 2016 to specifically address the perceived weaknesses in the existing certification system in Canada by providing a much more sustainable and independent organization to satisfy the needs of the aerospace and defense sector far into the future.

With an outstanding breadth of flight test and certification assets and professional resources that combine to create a unique position in the market, 3C delivers unparalleled expertise in aerospace flight test, evaluation, demonstration and certification solutions, together with innovative R&D capabilities and access to intellectual property of its sister companies.

Awards

- **Canadian American Business Achievement Award** - For leading a joint enterprise demonstrating strong business growth, remarkable innovation, noteworthy contributions to local communities and the capacity to provide their partners with a global advantage
- **Canadian Aeronautics & Space Institute: Trans Canada (McKee) Trophy** - Canada's oldest and most prestigious aeronautical trophy awarded to Marinvent for the Canadian whose achievements were most outstanding in promoting aviation in Canada
- **Aviation Week & Space Technology Laureate** - "...helping to transition from paper in the cockpit to a digital flight deck."
- **Canadian Business Aviation Association Industry Award (x2)** - Outstanding contribution to aviation. And, for the safety gains achieved through human factors enhancements, systems engineering and flight test services
- **Aerospace Association of Quebec (AQA) Prix de l'Entreprise**
- **Create the Future Award** - APM product winner
- **National Aeronautics and Space Administration (NASA) - Small Business Subcontractor of the Year (TASAR)**
- **AIAC James C Floyd Award** - Aerospace Company of the Year
- **New Zealand Ministry of Defense Award of Excellence to Industry** - Marinvent singled out as one of the two most valuable contractors from a pool of more than 800 contractors for contributions to C-130 LEP and P-3K capital programs
- **C2-MTL Annual Aerospace Award** - Marinvent's work on unmanned aerial systems flight test and evaluation with its Piaggio Avanti project singled out as aerospace innovation of the year
- **National Aeronautics and Space Administration (NASA) - LaRC 2014 Group Achievement Award**
- **Canadian Defense Executive of the Year** - Dr. John Maris
- **Canadian Aviation Hall of Fame** - Dr. John Maris
- **Canadian Defense Review** - Top 50 Defence Companies 2015-2024



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