

INTELLIGENT &
CYBER-PROTECTED
SAFETY-CRITICAL
SYSTEMS



WE ACCELERATE AIRWORTHINESS & PRODUCT CERTIFICATION

DO-178C Context and Challenges

The DO-178C exists to provide guidance for production of software for avionics systems that is safe and complies to the relevant regulatory standards. DO is well established in commercial aeronautics but more and more industries such as defence or UAV are asking for DO-178C software planning to demonstrate airworthiness.

Our Solution

CS Canada DO-178C proprietary certification planning templates have been used to successfully complete more than 50 certification programs over the last 20 years under the FAA, EASA or TCCA Certification Authorities.

The plans and standards are designed to be generic with specific help and guidance for all requirements with examples provided for inputs required from customers where applicable. They are fully re-usable across different projects with customer input minimised to enable fast ramp-up to the SOI-1 level.

Available templates

- > PSAC: Plan for Software Aspects of Certification
- > SDP: Software Development Plan
- > SVP: Software Verification Plan
- > SCMP: Software Configuration Management Plan
- > SQAP: Software Quality Assurance Plan
- > SRS, SDS, SCS: Software Requirement, Design or Coding Standards

Benefits

Facilitate rapid, cost effective production of the required plans and standards for any given project while minimising input from the customer during the initial generation phase.

CS Canada can create or revise the final plans and standards for you based on the specific input you provide in respect to your selected processes and tools for your project.

WHY CONSIDER CS ?

We have 20 years of experience with the highest and most demanding level of critical systems in the aerospace industry. We have worked with jet engine controls, completed DO-178C DAL A certification, provided services to some of the largest OEMs in North America, and contributed to many other critical systems in aerospace, defence, automotive, rail, and industrial markets.



CS Canada Snapshot

Trusted Engineering Capability

- > Turn-key supplier of majors OEMs, T1 and T2 of the Automotive, Aerospace and Defence industries.
- > 150 Engineers in North America specialized in critical software development, testing and certification.

Certification Office

- > Experts with 10+ years experience in the industry
- > DAA/DER liaison to ensure certification with regulatory authorities

Advanced R&D programs

- > Research Consortium

Involvement in international R&D programs (DEEL, IVVES) to define V&V techniques to make artificial intelligence algorithms certifiable.

- > ATLAS

Based on the latest ML and NLP techniques, this tool analyses textual requirements and auto-generates test scripts, saving up to 30% of the verification costs.



CS Canada:
CS Inc:

Montreal, QC, Canada
East-Hartford, CT, USA

www.cscanada.ca
www.c-s-inc.us