

MANAGEMENT SEMINAR FOR RTCA/DO-178B/C, RTCA/DO-254 & SAE/ARP 4754

Due to popular demand, MANNARINO Systems & Software is offering four (4) pan-Canadian one-day Management Seminars in the areas of RTCA/DO-178B/C (Software Aspects of Certification), RTCA/DO-254 (Design Assurance Guidance for Airborne Electronic Hardware) and SAE/ARP 4754A (Guidelines For Development Of Civil Aircraft and Systems). These seminars will be held in Montreal, Ottawa, Toronto and Calgary throughout September 2018.

TRAINING DESCRIPTION

The training material provides a management-level overview of RTCA/DO-178B & C, RTCA/DO-254 & SAE/ARP4754A objectives and associated activities required as part of a certification program. It provides insight on the usual certification pitfalls, processes flaws, project cost, recommended practices and maintainability aspects of these programs. Created for aerospace industry management personnel, this seminar focuses on the most common challenges for development, verification and certification of safety critical equipment.

LEARN MORE ABOUT

- Certification Processes (TC, STC, ATC, TSO)
- Safety Assessment Processes
- Relationship between ARP4754A, ARP4761, DO-178C and DO-254
- The differences between DO-178B and DO-178C
- Design Safety Considerations
- How to avoid common mistakes in certification, processes, tool use and selections
- How to apply DO-178C, DO-254 & ARP4754A guidance in the real world
- Understanding DO-178C and DO-254 objectives
- How to optimize Validation & Verification activities
- Understanding Configuration Management Planning
- The role of Quality/Process Assurance
- How the certification process and certification authorities oversight is handled
- How to succeed in Audits and Reviews
- The costs associated with DO-178 projects

DURATION & PRICE

- 1 Day (8 hours)
- Canadian \$750 / person + applicable taxes
- Registration includes course material in electronic format, coffee breaks and lunch as well as a certificate of completion

DATES/LOCATIONS

Montreal ~ Wednesday, September 5th, 2018 @ IATA

Ottawa ~ Thursday, September 13th, 2018 (venue to be announced shortly)

Toronto ~ Tuesday, September 25th, 2018 (TBA)

Calgary ~ Thursday, September 27th, 2018(TBA)

WHO SHOULD ATTEND?

- Software, AEH & System Project/Program Managers
- Certification Project/Program Managers
- Software, AEH & Systems Technical Leads
- Aerospace Executives

MEET OUR INSTRUCTORS

Mr. **John Mannarino** is **President and Founder of MANNARINO Systems & Software Inc.** (est. 1999). Initially an expert consultant in the field of gas turbine control systems and RTCA/DO-178 software, Mr. Mannarino has grown the company into a world-class engineering services firm serving over 25 customers in various safety-critical business sectors. Mr. Mannarino has over 25 years of experience with airborne systems and software ranging from Level A FADEC systems, to Level B, C & D avionic systems. Prior to founding the company, Mr. Mannarino was employed by a world-leading engine Original Equipment Manufacturer (OEM) where he held roles of increasing responsibility within the engineering organization, including **Chief of Control System Design**. Mr. Mannarino graduated from Concordia University (Montreal, Canada) in 1989, where he received a Bachelor's Degree in Mechanical Engineering (Great Distinction) and numerous awards for academic excellence.

Ms. **Amanda Melles** is a **Transport Canada Civil Aviation (TCCA) Software & Airborne Electronic Hardware (AEH) Design Approval Representative (DAR) and the Design Approval Organization (DAO) Chief Airworthiness Computer Scientist at MANNARINO**. Ms. Melles has been working with Airborne Software and Airborne Electronic Hardware design assurance since 2002 and has been a design assurance delegate since 2005. Having worked with major aerospace industry OEMs, Ms. Melles has been involved with highly complex safety-critical airborne software and AEH systems, including Integrated Modular Avionics (IMA), electronic displays, fly-by-wire, landing gear and air management systems for Part 25 aircraft. Ms. Melles has participated in the complete life cycle of multiple aircraft certification programs, having been deeply involved in software and AEH certification plans and strategies as well as process improvement. For several years, she was involved in fly-by-wire software and AEH, resulting in successful certification of large aircraft programs. Throughout her career, Ms. Melles has accumulated vast experience as it relates to design assurance processes, oversight and audits. She has liaised with multiple certification authorities namely, Transport Canada Civil Aviation (TCCA), the Canadian Department of National Defense (DND), the Canadian Directorate of Technical Airworthiness and Engineering Support (DTAES), the Federal Aviation Administration (FAA), the European Aviation Safety Agency (EASA) and Agência Nacional de Aviação Civil (ANAC). Ms. Melles has also led several on-site audits for software, AEH development and verification for a number of organizations, including major avionics and flight control manufacturers in the United States. As a result, Ms. Melles has accumulated extensive experience with DO-178B/C and DO-254 standards as well as the writing of all associated life cycle data and compliance reports. From 2005 to 2010, Ms. Melles was part of the RTCA Special Committee SC-205 "Software Considerations", responsible for DO-178/B updates, where she was part of the Model-Based Development & Verification Sub-Group. Currently Ms. Melles is active member of the S-18 Committee, responsible for ARP4754A updates.

FOR FURTHER INFORMATION REGARDING THE SEMINAR CONTENT, PLEASE CONTACT:

Ms. Amanda Melles
DAO Chief Airworthiness Computer Scientist
Tel: (514) 381-1360 x 322
Email: amanda.melles@mss.ca

FOR REGISTRATION AND PAYMENT INFORMATION, PLEASE CONTACT:

Ms. Sue Dabrowski
Offsets & Communications
Tel: (514) 381-1360 x 232
Email: sue.dabrowski@mss.ca

We hope you will join us and we look forward to seeing you in September!