



### AIRCRAFT CERTIFICATION SERVICE

#### FAA27200083: Software Job Functions: Differences between DO-178B and DO-178C

#### PURPOSE

The purpose of this course is to communicate the differences between DO-178B and DO-178C so that an Aviation Safety Engineer (ASE) with previous experience in applying RTCA DO-178B will be able to assess an applicant's adherence to DO-178C and DO-330 for software assurance.

#### COURSE OUTCOMES

Participants will learn about:

- General contents and proper use of supplements and documents related to DO-178C
- FAA planned guidance and policy supporting DO-178C, including DO-330, DO-331, DO-332, and DO-333
- Key differences between DO-178B and DO-178C
- Integrating changes in DO-178C with current practices in the software assessment process
- Evaluating applicants' life-cycle, processes, and data for compliance with DO-178C
- Integrating DO-330 with the current practices for the software tool qualification process
- Evaluating tool qualification life-cycle processes and data for compliance with DO-330

#### TARGET AUDIENCE

FAA AIR Software ASEs experienced with DO-178B and FAA policy and guidance related to software approval.

Eligible non-FAA individuals may enroll on a limited space-available basis. (See enrollment information in next column.)

#### DELIVERY METHOD

This training is an asynchronous, instructor-led online course with independently submitted assessment activities. It also includes some stand-alone, web-based modules.

#### PREREQUISITE

Participants need either:

- Working experience applying DO-178B/C OR
- Completion of former FAA20145 (or both FAA25951 and FAA25952) OR
- Completion of DO-178B/DO-178C equivalent out-of-agency training

#### REQUIRED MATERIALS

Participants must furnish copies of DO-178C and DO-330 (or EUROCAE equivalent documents).

Copies of DO-178B, DO-331, DO-332, and DO-333 are beneficial. (Available at [www.rtca.org](http://www.rtca.org)) There is no charge to RTCA members for electronic copies.

FAA members should email RTCA at [webmaster@rtca.org](mailto:webmaster@rtca.org) to establish an individual FAA account.

#### ENROLLMENT INFO

##### **FAA Employees:**

Contact your Division or Directorate AIR Training Manager (ATM)

##### **Non-FAA:**

This course is optional for eligible non-FAA individuals on a limited, space available basis through the AVS Designee Registration System (DRS) at <https://av-info.faa.gov/DsgReg/sections.aspx>

Contact FAA Academy AMA-220 for more information at 405-954-4534.