

RTCA DO-330 TRAINING

 **1 Day**

Program Overview

The use of software tools in the software life cycle processes is increasing and the need for their qualification, as defined in DO-178B/ED-12B or DO-178C/ED-12C may be requested.

The aim of this training is to present the tool qualification criteria and the objectives to satisfy for qualification in the user context. It is also to improve the software life cycle by optimizing the certification credit claimed.

What will you learn?

To understand the stakes of the tool qualification and the tool qualification criteria

To know how to satisfy the tool qualification objectives

To have the keys to optimize the software life cycle with qualified tools, as code generators

Who should attend?

Software Project Leaders

Quality Responsibles

Software Team Engineers

Pre-requisites?

Having knowledge about Embedded Software Development

Having basic level knowledge of fundamentals for software life cycle processes



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Deliverables

- Pre-test to measure your existing knowledge on the topic
- Soft copy of the training material
- Supporting publications related to the course topic
- Post-test to measure how much you have learnt from this course
- Training completion certificate

Structure and Content

PART 1: TOOL QUALIFICATION PRINCIPLES

To understand the need for tool qualification and the tool qualification criteria

1. **Considerations on tools**
2. **Need for tool qualification**
3. **Qualification criteria and levels**

PART 3: QUALIFICATION PROCESSES

To identify the qualification workload for each TQL

1. **Criteria 3 tools**
2. **Criteria 2 tools**
3. **Criteria 1 tools**

PART 5: CERTIFICATION CREDIT OF A QUALIFIED CODE GENERATOR

To discuss on possible certification credit and issues when using an Autocode Generator (ACG)

1. **Use of an Autocode Generator**
2. **Certification credit**
3. **Possible approaches**

PART 2: DO-330 / ED-215 PRESENTATION

To become familiar with the tool qualification document

1. **Tool qualification guidance**
2. **Main concepts**

PART 4: SPECIFIC CASES

To get answers to address specific tools or tool usage

1. **COTS**
2. **Multi-function tools**
3. **Compiler, emulator, simulator**
4. **Tool qualification reuse**

PART 6: TQL-5 TOOL

To detail and apply the TQL-5 qualification guidance

1. **Stakeholders**
2. **Tool qualification processes**
3. **Tool qualification Data**
4. **Practice: Examples, TOR, verification and validation**



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