ELECTRA IC
Design & Verification

Testing and Structural Coverage Analysis Process from DO-178C Perspective

⏳ **1.5 Days**

Program Overview

RTCA/DO-178C is an important guidance document that is used in the development of safety-critical avionics software. The aim of this training is to explain how to develop test cases and how to analyze structural coverage from RTCA/DO-178C point of view.

Pre-requisites?

• Having knowledge about Embedded Software Development
• Having basic knowledge about software development lifecycle processes

Who should attend?

- Software Project Managers
- Software Development Engineers
- Software Verification Engineers
- Software Quality Engineers
- Software Configuration Management Specialists

What will you learn?

- Points to consider through DO-178C compliant test case development and structural coverage analysis
- Testing characteristics
- Structural Coverage Analysis degrees, resolution types and methodologies
- Importance of verification process in DO-178C and what to pay attention

Structure and Content

o What is the Test?

o Test Methods

o Effective Test Development and Management

o What is Structural Coverage Analysis?

o Structural Coverage Levels

o Structural Coverage Analysis Types

o Effective Structural Coverage Analysis

o Test Development and Verification Applications

o Structural Coverage Analysis Applications