ELECTRA IC
Design & Verification

ISO 26262 Training Course

⏳ **2 Days**

An intensive 2-day course to introduce the main concepts, processes and deliverables relating to the automotive ISO 26262 standard

Target Audience

- Automotive Engineers
- Automotive Managers
- Quality Engineers

Key Topics Covered

- Overview of the standard and its purpose
- Description and purpose of the 10 dedicated parts
- Run through of the main work products
- Explanation of the processes, flows, roles and responsibilities
- Introduction to security considerations

Learning Outcomes

At the end of the course the attendees will be able to:

- Understand the purpose of the standard
- An educated analysis of what is required to implement the standard
- A comprehension of the safety culture required
- How to work within a safety related product flow internally and externally
- Basic roles identified to implement the standard
- What processes are required to both implement and prove acceptance to the standard
- Understand how security impacts automotive safety compliance

Delivery

- 2-days divided into interactive lectures and workshops
- The workshops will be team based and interactive
- The workshops will be tailored to the automotive domain

Prerequisites

The following prerequisites is required of the delegates:

- Understanding of engineering, quality or management processes and practises

Course Content

• Introduction
o Motivation: Why is this course required?
o Content
o Objectives
o Expected outcomes

• Introduction to the ISO 26262
o History
  - Related standards
  - Purpose
  - Current status
o Main parts of the standard
  - 10 main parts
  - Describe the parts, purposes and descriptions
o Workshop
  - Automotive use case example
    (decide in groups)
  - Basic description of the use-cases

• For all technical parts of the ISO 26262
o Description of part x (over 10 sessions)
  - Purpose
  - Inputs
  - Outputs
  - Special considerations
  - Standard inclusion of methods required
o Workshop
  - Use-case analysis in relation to each part
    (if relevant)

• For Part 8 on supporting processes
o Overview of clauses
  - Processes
  - Technologies
  - Tooling
o Workshop
  - Groups analyse current gaps
  - Consideration of requirements to close gaps

• Focus on hardware
o Details on how to achieve ISO 26262 compliance for hardware

• Introduction on software
o Introduction on to ISO 26262 software compliance for software

• Introduction to security consideration
o Introduction to ISO 21434 and cyber security engineering
  considerations

• Safety Culture
o Overview of Safety Culture
  - Internal training
  - Communication of standard requirements
  - Proof of safety culture
o Workshop
  - Groups analyse current processes
  - Consideration of how to implement safety culture