

ISO 26262

Process consulting, tool qualification, and safety concepts

```
elif _operation == "MIRROR_Y":  
    mirror_mod.use_x = False  
    mirror_mod.use_y = True  
    mirror_mod.use_z = False  
elif _operation == "MIRROR_Z":  
    mirror_mod.use_x = False  
    mirror_mod.use_y = False  
    mirror_mod.use_z = True  
  
#selection at the end -add back t  
mirror_ob.select= 1  
modifier_ob.select=1  
bpy.context.scene.objects.active = mo  
print("Selected" + str(modifier_ob))  
#mirror_ob.select = 0  
time = bpy.context.selected_objects[0]  
bpy.data.objects[time.name].select = 1
```

ISO 26262



- » Identification and implementation of improvement potential for processes and toolchains
- » Advice on project coordination, requirements creation and documentation
- » Qualification of tools and toolchains in accordance with ISO 26262

ISO 26262 – Functional safety

MicroNova supports companies in introducing and implementing functional safety processes in accordance with ISO 26262 – from concept to approval.

Compliance with the ISO 26262 standard ensures that functional safety has been sufficiently taken into account in the development of safety-related electrical/electronic systems for motor vehicles. This helps to avoid unacceptable risks to humans and to reduce the risks of product liability.

With its ISO 26262 consulting services, MicroNova supports automotive manufacturers and suppliers in implementing the measures required by this standard for the development of automotive electronics. The services are directed at functional safety managers, quality managers, and test managers looking for competent advice on project coordination, requirements creation, and documentation. They benefit from MicroNova's decades of experience in development and test processes in the automotive sector. Our consultants help to identify and implement improvement potential for processes and toolchains in the field of functional safety.

Another area of focus of MicroNova is the qualification of tools and toolchains in accordance with ISO 26262, which has already been successfully completed in numerous customer projects. In addition to executing FMEAs (failure mode and effects analysis), qualification also includes preparing classification and qualification reports, as well as support in conducting assessments.



Tool qualification

- » Determination of tool confidence level
- » Preparation of classification report
- » Definition and implementation of qualification measures
- » Preparation of qualification report
- » Support for assessments

Implementation of FMEAs

- » Definition of use cases
- » Analysis of potential errors
- » Assessment of the risk of error
- » Preparation of safety requirements

Data visualization

- » Tool selection for data access
- » Assurance of requirements traceability
- » Visualization of artifacts relevant for ISO 26262

Services

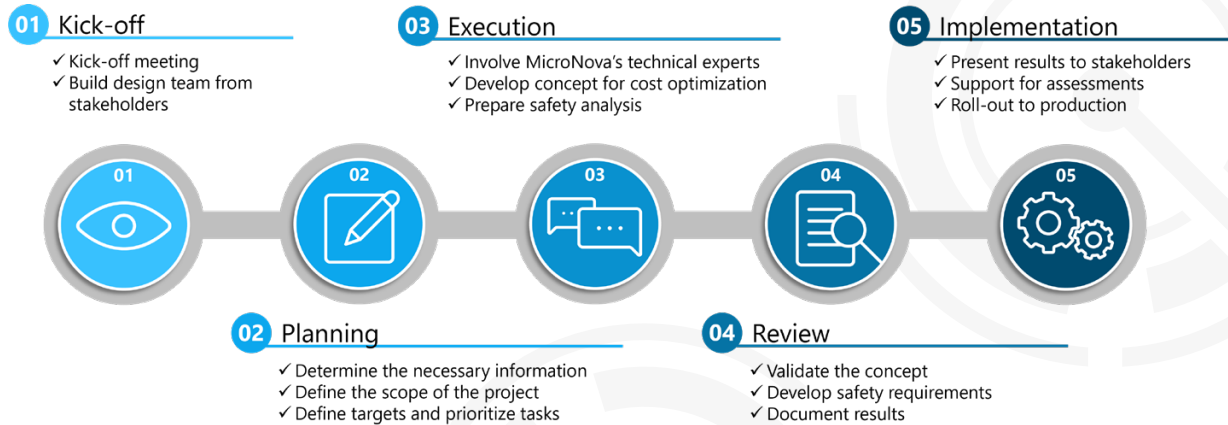
Safety gap analysis

- » Scope definition
- » Analysis of processes and toolchains for compliance with ISO 26262
- » Definition of measures in order to achieve conformity

Implementation of safety workshops

- » Identification of requirements
- » Introduction to the ISO 26262 standard
- » Support for critical projects

Project timeline



Plug-in for test automation: EXAM ISO 26262 QKit

In addition to its extensive consulting services, MicroNova already offers products for qualification and certification according to ISO 26262. Since the manual maintenance of documents, with its high expenditure of time and resources, is usually not only expensive but also more prone to errors, largely automated software solutions provide a remedy here - also in the context of functional safety.

MicroNova has expanded the EXAM test automation solution accordingly: The „EXAM ISO 26262 QKit“ plug-in semi-automatically checks the level of conformity of EXAM tools with „ISO 26262 Part 8: Supporting processes, chapter 11: Confidence in the use of software tools“. MicroNova worked with Validas AG during the development. The companies jointly offer the EXAM plug-in for functional safety.

The EXAM ISO 26262 QKit allows products or solutions relevant to ISO 26262 to be integrated into the documentation of automotive manufacturers or suppliers. A report, plan, safety manual and a verification or validation report can be prepared for the classification – all conforming to ISO 26262.

Cooperation with Validas AG ensures that the tool qualification process is TÜV certified. Automotive manufacturers and suppliers using the EXAM ISO 26262 QKit can therefore be sure that their EXAM project is appropriately qualified and can be explicitly certified if required.

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