



# Development support, testing and certification

## 1. Development Support

### Concept Phase →

### Design Phase →

### Testing Prototype →

## 2. Type Testing

## 3. Certification

Necessary documents and information

- Definition of target markets
- Description of product and functions
- Risk assessment
- Definition of all relevant safety functions

- Test plan
- Isolation concept
- Circuit diagrams
- Component selection
- Concretization of the test plan based on actual HW design

- Visual inspection of the prototype
- Execution of partial tests as far as possible
- Concretization of the test plan
- Review documents

- Product inspection/evaluation according to inspection plan (if necessary, partial assessments can be taken over when HW status is representative)
- Examination of the documents
- Consolidation of all partial results (functional safety, EMC, etc.) and reconciliation

- Positively completed type test
- Positively completed factory inspection

Results/output

- List of normative requirements for target markets
- Completeness of documents related to the safety concept (electrical, mechanical, functional safety, etc.)

- Completeness of test plan
- Isolation design under requirements of the standards
- Design of the electrical parts according to the standards
- Components suitable for use and target markets

- Adequate evidence of compliance with the standard

- Technical report regarding compliance with all relevant standards for the target markets

- Certificates or conformity certifications for the target markets

Parallel

Risk assessment/functional safety/EMC/ENV/cyber security etc.