

ISO 25119-1:2018 (E)

Tractors and machinery for agriculture and forestry — Safety-related parts of control systems — Part 1: General principles for design and development

Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	Abbreviated terms
5	Quality management system
6	Management during complete safety lifecycle
6.1	Objectives
6.2	General
6.2.1	Introduction to the safety life cycle concept
6.2.2	External functional safety measures
6.3	Prerequisites
6.4	Requirements — Functional safety management activities across safety life cycle
6.4.1	Functional safety culture
6.4.2	Continuous improvement
6.4.3	Training and qualification
6.4.4	Assignment of safety responsibilities
6.4.5	Assignment of tasks
6.4.6	Planning of all safety management activities during development
6.4.6.1	General
6.4.6.2	Technical documentation
6.4.6.3	Safety plan
6.4.6.3.1	Objectives
6.4.6.3.2	Contents of the safety plan
6.4.6.3.3	Format of safety plan
6.4.6.4	Tailoring activities within processes (to AgPL)
6.5	Work products
7	Assessment of functional safety
7.1	Objectives
7.2	General
7.3	Prerequisites
7.4	Requirements
7.4.1	Considerations for the assessment of the functional safety
7.4.2	Verification
7.5	Work products
8	Functional safety management activities after start of production (SOP)
8.1	Objectives
8.2	General
8.3	Prerequisites
8.4	Requirements
8.4.1	Management of production and modification procedures
8.4.2	Tasks for preparing and conducting production and end of line inspections
8.4.3	Tasks for safe machine operation, maintenance, repair and decommissioning

- 8.5 Work products
- 9 Plan for production and installation of safety-related systems
 - 9.1 Objectives
 - 9.2 General
 - 9.3 Prerequisites
 - 9.4 Requirements
 - 9.4.1 Production plan
 - 9.4.2 Test plan
 - 9.4.3 Production and testing
 - 9.4.4 Process capability
 - 9.4.5 Documentation
 - 9.4.6 Non-compliance
 - 9.4.7 Traceability
 - 9.4.8 Storage and transport conditions
 - 9.4.9 Modification
 - 9.5 Work products
- Annex A (informative) Example of the structure of a project-specific safety plan
 - A.1 General
 - A.2 Change log
 - A.3 Objective of overall project
 - A.4 Schedule
 - A.5 Project organization
 - A.5.1 Project team organization
 - A.5.2 Project team members
 - A.5.3 Safety management
 - A.5.3.1 General
 - A.5.3.2 Functional safety management activities above the project level
 - A.5.3.3 Functional safety management activities related to the project level

Page count: 23