

DIN EN ISO 25119-4:2024-07 (E)

Tractors and machinery for agriculture and forestry - Safety-related parts of control systems - Part 4: Production, operation, modification and supporting processes (ISO 25119-4:2018 + Amd 1:2020) (includes Amendment A1:2023)

Contents		Page
European foreword.....		4
[A1] European foreword to Amendment A1 [A1]		5
Annex ZA (informative) Relationship between this European Standard and the essential requirements of Directive 2006/42/EC aimed to be covered		6
Foreword		11
[A1] Foreword to Amendment A1 [A1]		12
Introduction		13
1	Scope.....	15
2	Normative references.....	15
3	Terms and definitions	16
4	Abbreviated terms.....	16
5	Quality management system.....	17
6	Safety validation and verification	17
6.1	Objectives.....	17
6.2	General.....	17
6.3	Prerequisites	17
6.4	Requirements	18
6.4.1	SRP/CS design validation and verification.....	18
6.4.2	Scope of safety validation and verification	18
6.4.3	Activities.....	18
6.4.4	Validation and verification plan.....	18
6.4.5	Validation and verification test specification	19
6.5	Work products	19
7	Configuration management.....	19
7.1	Objectives.....	19
7.2	Prerequisites	19
7.3	Requirements.....	19
7.4	Work products	19
8	Product release	20
8.1	Objectives.....	20
8.2	General.....	20
8.3	Prerequisites	21
8.4	Requirements	21
8.4.1	Conditions for product release.....	21
8.4.2	Documentation of product release	21
8.5	Work products	21
9	Production planning, production and production testing.....	21
9.1	Objectives.....	21
9.2	General.....	21
9.3	Prerequisites	22
9.4	Requirements	22
9.4.1	Production plan	22

9.4.2	Production test plan	22
9.4.3	Personnel.....	22
9.4.4	Process capability.....	22
9.4.5	Documentation	22
9.4.6	Non-compliance	22
9.4.7	Storage and transport conditions.....	23
9.5	Work products.....	23
10	Operation planning and maintenance (instructions for operating, servicing, repair and decommissioning)	23
10.1	Objectives	23
10.2	General	23
10.3	Prerequisites.....	23
10.4	Requirements.....	23
10.4.1	General	23
10.4.2	Servicing schedule.....	23
10.4.3	Repair instructions	24
10.4.4	Service technician instructions	24
10.4.5	User information.....	24
10.4.6	Field observation	24
10.4.7	Storage and transport information.....	24
10.4.8	Decommissioning and disassembling.....	24
10.5	Work products.....	25
11	Modifications (change management).....	25
11.1	Objective	25
11.2	General	25
11.3	Prerequisites.....	25
11.4	Requirements.....	25
11.4.1	Product modification and improvement procedures.....	25
11.4.2	Modification request	27
11.4.3	Assessing impact of modification	28
11.4.4	Modification authorization	28
11.5	Work products.....	28
12	Procedure for suppliers of SRP/CS, subsystems and components	29
12.1	Objectives	29
12.2	General	29
12.3	Prerequisites.....	29
12.4	Requirements.....	29
12.4.1	General	29
12.4.2	Scope of requirements.....	29
12.4.3	Supplier selection.....	30
12.4.4	Project initiation.....	30
12.4.5	Project planning.....	30
12.4.6	Project execution.....	30
12.4.7	Confirmation measures for the development partners' functional safety	31
12.4.8	System validation	31
12.5	Work products.....	31
13	Technical documentation	31
13.1	Objectives	31
13.2	Requirements.....	31
13.2.1	Document retention.....	31
13.2.2	Document structure.....	31
	Annex A (informative) Technical documentation checklist.....	33
	Bibliography	37