ISO 25119-2:2010-05 (E)

Tractors and machinery for agriculture and forestry - Safety-related parts of control systems - Part 2: Concept phase

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 Abbreviated terms 1

5 Concept -- Unit of observation 3
5.1 Objectives 3
5.2 Prerequisites 3
5.3 Requirements 3
5.4 Work products 4

6 Risk analysis and method description 4
6.1 Objectives 4
6.2 Prerequisites 4
6.3 Requirements 5
6.4 Work products 8

7 System design 8
7.1 Objectives 8
7.2 Prerequisites 8
7.3 Requirements 8
7.4 Work products 10

Annex A (normative) Designated architectures for SRP/CS 11

Annex B (informative) Simplified method to estimate channel MTTFdC 17

Annex C (informative) Determination of diagnostic coverage (DC) 20

Annex D (informative) Estimates for common-cause failure (CCF) 24

Annex E (informative) Systematic failure 26

Annex F (informative) Characteristics of safety functions 29

Annex G (informative) Example of a risk analysis 32

Bibliography 37