

# ISO/TR 14121-2:2012-06 (E)

## Safety of machinery - Risk assessment - Part 2: Practical guidance and examples of methods

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	1
4	Preparation for risk assessment .....	1
4.1	General .....	1
4.2	Using the team approach for risk assessment .....	2
5	Risk assessment process .....	3
5.1	General .....	3
5.2	Determination of the limits of the machinery .....	3
5.3	Hazard identification .....	4
5.4	Risk estimation .....	6
6	Risk estimation tools .....	9
6.1	General .....	9
6.2	Risk matrix .....	9
6.3	Risk graph .....	12
6.4	Numerical scoring .....	14
6.5	Hybrid tool .....	15
7	Risk evaluation .....	19
8	Risk reduction .....	19
8.1	General .....	19
8.2	Inherently safe design .....	19
8.3	Safeguarding .....	20
8.4	Complementary protective/risk reduction measures .....	21
8.5	Information for use .....	21
8.6	Standard operating procedures .....	22
9	Risk assessment iteration .....	22
10	Documentation of risk assessment .....	22
Annex A (informative) Example application of the process of risk assessment and risk reduction ...		23
Bibliography .....		38