

ISO 12480-1:2024-08 (E)

Cranes - Safe use - Part 1: General

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Safe system of work	2
5	Personnel involved with crane activities	3
5.1	Competency of personnel	3
5.2	Duties of personnel	3
5.2.1	Duties of crane operator	3
5.2.2	Duties of slinger	4
5.2.3	Duties of signaller	4
5.3	Communication system	4
5.4	Personal protective equipment	5
5.5	Crane access and fire prevention	5
5.5.1	Boarding and leaving the crane	5
5.5.2	Fire prevention	5
6	Crane activities	5
6.1	Planning of crane activities	5
6.2	Crane selection	6
6.3	Crane placement	6
6.4	Crane erection and dismantling	7
6.4.1	Identification of components	7
6.4.2	Electrical supply	7
6.4.3	Lightning protection	7
6.5	Crane operation	7
6.6	Remote operation	9
6.7	Operation in the vicinity of overhead electric power lines	9
6.8	Environmental considerations	9
6.8.1	Wind	9
6.8.2	Visibility	10
6.8.3	Rain, snow or ice	10
7	Maintenance, inspection and condition monitoring	10
7.1	Malfunctions, issues and incidents	10
7.2	Leaving the crane unattended	10
8	Other lifting applications	11
8.1	Lifting with multiple cranes or multiple hoists	11
8.1.1	Multiple crane lifting	11
8.1.2	Multiple hoist lifting	11
8.1.3	Supervision	13
8.1.4	Coordination of crane motions	13
8.2	Non-fixed load-lifting attachments	13
8.2.1	Grab attachment	14
8.2.2	Magnet attachment	14
8.2.3	Vacuum lifting devices	14

8.2.4	Demolition (deconstruction) and other special lifting applications	14
8.3	Personnel lifting	14
	Annex A (informative) Lifting and lowering of personnel	16
	Bibliography	18