

ISO 18893:2024-10 (E)

Mobile elevating work platforms - Safety principles, inspection, maintenance and operation

Contents

Page

- Foreword..... v
- Introduction..... vi
- 1 Scope..... 1
- 2 Normative references..... 1
- 3 Terms and definitions..... 1
- 4 General requirements..... 5
 - 4.1 Basic principles..... 5
 - 4.2 Safe use planning..... 5
 - 4.3 Manual(s)..... 6
 - 4.3.1 Operator's manual(s)..... 6
 - 4.3.2 Parts and service manual(s)..... 6
 - 4.4 Record retention..... 6
 - 4.5 Modifications..... 7
 - 4.5.1 Manufacturer modifications..... 7
 - 4.5.2 Owner modifications..... 7
- 5 Maintenance..... 7
 - 5.1 Preventive maintenance..... 7
 - 5.2 Maintenance inspections..... 8
 - 5.2.1 General..... 8
 - 5.2.2 Pre-delivery inspection..... 8
 - 5.2.3 Pre-start inspection..... 8
 - 5.2.4 Frequent inspection..... 9
 - 5.2.5 Annual inspection..... 9
 - 5.3 Maintenance personnel training..... 10
 - 5.4 Maintenance and repair safety precautions..... 10
 - 5.5 Replacement parts..... 11
 - 5.6 Manufacturer's safety-related bulletins..... 11
- 6 Qualification and training..... 11
 - 6.1 Authorization to operate..... 11
 - 6.2 User conformance evaluations..... 11
 - 6.3 Retraining..... 11
 - 6.4 Assessment of personnel..... 11
 - 6.5 Occupant knowledge..... 12
 - 6.6 Supervisor training..... 12
 - 6.7 Familiarization..... 12
 - 6.8 Assistance to operators..... 13
- 7 Operation..... 13
 - 7.1 General..... 13
 - 7.2 Risk assessment..... 13
 - 7.2.1 General..... 13
 - 7.2.2 Stages of risk assessment planning..... 13
 - 7.3 Rescue from height..... 14
 - 7.3.1 General..... 14
 - 7.3.2 Rescue plan..... 14
 - 7.3.3 Rescue using another MEWP..... 15
 - 7.4 Addressing system failure..... 15
 - 7.5 Before operation..... 15

7.6	Work site inspection.....	16
7.7	Understanding of hazardous locations.....	16
7.8	Specific requirements of operation.....	17
7.8.1	Weather considerations.....	17
7.8.2	Ground condition considerations.....	17
7.8.3	Transporting and travelling on public roads.....	18
7.8.4	Slope and grade.....	18
7.8.5	Deployment of stability enhancing means.....	18
7.8.6	Fall protection.....	18
7.8.7	Distribution of load.....	18
7.8.8	MEWP movement.....	18
7.8.9	Electrocution hazards.....	19
7.8.10	Footing for personnel.....	20
7.8.11	Precaution for other moving equipment.....	20
7.8.12	Reporting safety-related problems or malfunctions.....	20
7.8.13	Reporting potentially hazardous locations.....	20
7.8.14	Hazardous location operation.....	21
7.8.15	Entanglement.....	21
7.8.16	Load transfer.....	21
7.8.17	Work area.....	21
7.8.18	Fuelling.....	21
7.8.19	Battery charging.....	21
7.8.20	Improper MEWP stabilisation.....	21
7.8.21	Misuse as a crane or elevator.....	21
7.8.22	Use of MEWP for grounding.....	21
7.8.23	Climbing the extending structure.....	21
7.8.24	Unusual operating support conditions.....	21
7.8.25	Travelling.....	22
7.8.26	Stunt driving.....	22
7.8.27	Securing the MEWP.....	22
7.8.28	Interference with safety devices.....	22
7.8.29	Snagged MEWP.....	22
7.8.30	Vacating (or entering) a MEWP at height.....	22
7.8.31	Carrying materials larger than the work platform.....	23
7.8.32	Carrying materials outside the work platform.....	23
7.8.33	Rated manual forces and special forces.....	23
7.8.34	Protection against unauthorized use.....	23
7.8.35	Misuse as a jack.....	23
7.8.36	Moving overhead obstructions.....	23
7.8.37	Parking of MEWP.....	23
7.8.38	Transport.....	24
7.8.39	Ventilation.....	24
7.8.40	Allowable rated forces.....	24
	Annex A (informative) Examples of MEWP types and groups.....	25
	Bibliography.....	28