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Mobile elevating work platforms — Operator training (driver)

Plates-formes élévatrices mobiles de personnel — Formation des conducteurs

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Contents

Foreword.....	iv
Introduction.....	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Safe use of the MEWP.....	2
5 Requirements to Train and Authorize Operator	2
6 Contents of Training.....	2
7 Administration of Training.....	3
Annex A (normative) Items Included in a Pre-start Inspection	4
Annex B (normative) Factors affecting stability	5
Annex C (normative) Common Hazards	7
Annex D (normative) Work Place Inspection	10
Annex E (informative) Theoretical Knowledge Evaluation Sheet--Sample	11
Annex F (informative) Practical Knowledge Evaluation Test	12
Annex G (informative) Model of MEWP Operator Certificates.....	17

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Foreword

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International Standard ISO 18878.2 was prepared by Technical Committee ISO/TC 214, *Elevating Work Platforms*, Subcommittee SC , .

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Introduction

This International Standard is one of a series of standards produced by ISO/TC 214 as part of its program of work regarding standardization of terminology and general principles for training operators (drivers) of elevating work platforms used to raise (elevate) and position personnel (and related work tools and materials) to a work position where a work task is to be performed. It is intended that each local jurisdiction will use this standard to develop detailed training requirements peculiar to the local conditions.

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Mobile elevating work platforms — Operator training (driver)

1 Scope

1.1 Training Requirements

This standard shall be used to prepare training materials and to administer training to operators (drivers) of Mobile Elevating Work Platforms (hereafter known as MEWP).

1.2 Applicability

This standard applies to MEWP intended to move persons to working positions where they are carrying out work from the work platform and which are covered ISO/DIS 16368 MEWPS Design Calculations, Safety Requirements and Test Methods. This standard does not apply to:

- a) Permanently installed personnel lifting appliances serving defined levels (see EN 81-1:1998 and EN 81-2:1998);
- b) Fire-fighting and fire rescue appliances (see prEN 1777:1994);
- c) Unguided work cages suspended from lifting appliances (see prEN 1808:1995);
- d) Elevating operator position on rail dependent storage and retrieval equipment (EN 528:1996);
- e) Tail lifts (see prEN 1756:1994 and prEN 1756_2:1997);
- f) Mast climbing work platforms (see EN 1495:1997);
- g) Fairground equipment;
- h) Lifting tables with a lifting height of less than 2 m (see EN 1570:1998);
- i) Builders hoists for persons and materials (see prEN 12159:1995);
- j) Aircraft ground support equipment (see prEN 1915-1 and 2:1995);
- k) Digger derricks (see ANSI A10.31)
- l) Elevating operator positions on industrial trucks (see prEN 1726-2:1995)
- m) Under-bridge inspection and maintenance devices (see ANSI A92.8-1993)

2 Normative references

The following normative documents contain provisions, which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For

undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO/DIS 16368 MEWPS Design Calculations, Safety Requirements and Test Methods.

ISO/DIS 18893 MEWPS-Safety Principles, Inspection, Maintenance and Operation

3 Terms and definitions

For the purposes of this International Standard, the terms and definitions given in ISO/DIS 16368 and, ISO/DIS 18893 apply.

4 Safe use of the MEWP

This standard is to be used in conjunction with ISO/DIS 18893 MEWP-Safety Principles, Inspection, Maintenance and Operation which is focused on safe use of MEWPs in all its aspects—not merely operator training.

5 Requirements to Train and Authorize Operator

5.1 Authorization to Operate

Only properly trained and authorized personnel shall operate a MEWP.

5.2 Responsibility to train

The Custodian of the MEWP is responsible to train the operator or see that the operator is trained or have proof that the operator is trained in accordance with this standard.

6 Contents of Training

6.1 Basic Training

6.1.1 Subject Matter

The operator shall be trained on the following subjects. Local conditions may require other subjects to be added:

- a) The selection of an appropriate MEWP
- b) The purpose and use of operator's manuals, warnings and instructions and custodian's safety rules
- c) The pre-start inspection see annex A
- d) Factors affecting stability see annex B
- e) Common hazards and their avoidance see annex C
- f) The workplace inspection see annex D
- g) General knowledge of the intended purpose and function of all MEWP controls including emergency controls.
- h) Use of appropriate personal safety devices appropriate to the worksite and environment.

- i) Safe traveling
- j) Transport (if appropriate)
- k) Securing the MEWP from unauthorized use
- l) Use of malfunctioning MEWP
- m) Actual operation of the MEWP--Under the direction of a qualified person the trainee shall operate the MEWP for a sufficient period of to demonstrate proficiency in the actual operation of the MEWP.

6.2 Familiarization

Before being authorized to operate a particular make or model MEWP the operator will be familiarized by a qualified person on the following:

- a) The manufacturer's warnings and instructions
- b) The control functions specific to the particular MEWP
- c) The function of each safety device specific to the particular MEWP

7 Administration of Training

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7.1 Qualified Trainer

The Trainer shall be a qualified person as defined in ISO/DIS 18893 MEWPS-Safety Principles, Inspection, Maintenance and Operation

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7.2 Competency

A trainee will show proficiency in both theory and practice

7.3 Record Keeping

7.3.1 The successful trainee shall be furnished proof of training.

7.3.2 Proof of training shall certify compliance with this standard.

7.3.3 The trainer shall keep records of training for at least the period of time the training is valid.

7.4 Retraining

The operator shall be retrained as necessary to keep his level of competency at an acceptable level.

7.5 Auditing

A third party will periodically audit the training entity to assure that an acceptable level of training quality is maintained.

Annex A
(normative)
Items Included in a Pre-start Inspection

The necessary visual inspection and functional test includes but not limited to the following:

A.1 Operating and emergency controls.

Operate all functions in all directions

A.2 Safety devices.

A.3 Personal protective devices.

A.4 Air, hydraulic and fuel system leaks.

A.5 Cables and wiring harness.

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A.6 Loose or missing parts.

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A.7 Cracked or broken welds.

A.8 Damaged components or structures.

A.9 Tires and wheels.

A.10 Placards warnings, control markings, and operating manual(s).

A.11 Stabilizers such as outriggers, extendible axles and other structures.

A.12 Guardrail system.

A.13 Other items specified by the manufacturer.

Annex B **(normative)**

Factors affecting stability

The necessary factors to be included in the stability part of the training includes but not limited to the following:

B.1 Drop-offs or holes.

B.2 Slopes.

B.3 Bumps and floor obstructions.

B.4 Debris.

B.5 Inadequate surface and support to withstand all load forces imposed by the MEWP in all operating configurations.

B.6 Excessive wind.

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B.7 Failure to properly deploy stabilizing devices such as outriggers, extendible axles, or other stability enhancing means, are used as required by the manufacturer

B.8 Defeating or ignoring slope warnings and interlocks

B.9 Exceeding the rated load or improperly distributing the load on the work platform and any platform extension.

B.10 Entanglement or snagging of the MEWP

B.11 Improper load transfer of personnel or loads at height—especially if it results in overloading

B.12 Misuse as a crane, hoist or jack

B.13 Unusual operating support conditions—as in operating on trucks, trailers, railway cars, floating vessels, scaffolds or similar equipment.