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Mobile elevating work platforms — Operator training

Plates-formes élévatrices mobiles de personnel — Formation des opérateurs

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 214, *Elevating work platforms*.

This third edition cancels and replaces the second edition (ISO 18878:2013), which has been technically revised.

The main changes are as follows:

— the title was changed to remove the term “(driver)”;

— in the Introduction, reference to TC 214 was removed;

— in the Scope, the opening statement was clarified for accuracy and readability;

— in Clause 3, additional terms were added to support use of these terms throughout the document;

— in Clause 4, text was added to ensure safe use requirements are also used in the training process;

— in Clause 5, the existing language was replaced by the contents of former Clause 7;

— in Clause 6, requirements for familiarization were removed as they are now found in ISO 18893;

— in the annexes, the term "examiner" was replaced by "trainer".

Any feedback or questions on this document should be directed to the user’s national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

This document is one of a group of standards for mobile elevating work platforms (MEWPs), as part of a programme of work regarding standardization of terminology and general principles for training operators 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. Local jurisdictions can use this document to develop detailed training requirements particular to the local conditions.

Mobile elevating work platforms — Operator training

1 Scope

This document provides requirements for training material content and the administration of standardized training to operators of mobile elevating work platforms (MEWPs).

It is applicable to MEWPs, as defined in ISO 16368, intended for moving person(s), along with their necessary tools and materials to an elevated work location.

NOTE National or other regulations, which could be more stringent, can apply.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 16368, *Mobile elevating work platforms — Design, calculations, safety requirements and test methods*

ISO 18893, *Mobile elevating work platforms — Safety principles, inspection, maintenance and operation*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 16368 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/.

3.1
operator
person who controls the operation of the MEWP

[SOURCE: ISO 18893:2024, 3.17]

3.2
trainer
qualified person (3.6) who conducts the *training* (3.4)

3.3
trainee
person receiving *training* (3.4)

[SOURCE: ISO 7130:2013, 3.3]

3.4
training
instruction to enable the *trainee* (3.3) to become a *qualified person* (3.6) regarding the task to be performed, including knowledge regarding potential hazards

3.5
familiarization
providing the necessary information to a qualified person or *trained operator* (3.1) regarding the features, functions, devices, limitations, and operating characteristics, as defined by the manufacturer, in order to properly utilize a specific model of MEWP

[SOURCE: ISO 18893:2023, 3.8]

3.6
qualified person
person who, by possession of a recognized degree, certificate or professional standing, or by extensive knowledge, *training* (3.4) and experience, has successfully demonstrated their ability to solve or resolve problems related to the subject matter, work, or the project

[SOURCE: ISO 18893:2024, 3.20]

3.7
simulator
system that imitates the experience of operating a MEWP

[SOURCE: ISO 7130:2013, 3.2, modified — to replace earth-moving machine with MEWP.]

3.8
user
person or entity that has care, control, and custody of the MEWP

[SOURCE: ISO 18893:2024, 3.29]

4 Safe use of the MEWP

4.1 This document shall be used in conjunction with ISO 18893, which is focused on safe use of MEWPs in all its aspects.

4.2 Safe use of a MEWP when training is being administered shall be in conformity with ISO 18893.

5 Administration of training

5.1 Trainers

5.1.1 The trainer shall be a qualified person who has extensive knowledge in the training process, the subject matter, the delivery of training, and the testing and evaluation of the trainee(s).

5.1.2 The trainer shall be knowledgeable regarding the laws, regulations, safe use practices, manufacturer's requirements, and recognition and avoidance of hazards associated with MEWPs.

5.1.3 The trainer shall only give instruction on classification(s) of MEWPs for which they are qualified.

5.1.4 The trainer shall also be knowledgeable regarding the application and operation of MEWPs in the location and environment where the training is being delivered.

5.2 Curriculum

The curriculum for the operator training shall incorporate the topics and subjects listed in Clause 6. The curriculum shall clearly identify that training covers only the classification for the MEWP(s) included in the training.

5.3 Training environment

5.3.1 The environment where training occurs shall be free from hazards and supportive to learning.

5.3.2 The theory (classroom) training environment should incorporate proper lighting and acoustics, room size and capacity to accommodate the number of trainees, heating and air conditioning, presentation equipment, visibility for all trainees of the presentation, and rest room facilities.

5.3.3 A risk assessment shall be made for each location where practical (hands on) training and testing is to be given to identify and eliminate or mitigate hazards and risks associated with safe use of the MEWP.

5.3.4 Training given using a simulator (for example, virtual reality), shall not replace the requirement for hands-on operation of an actual MEWP.

5.4 Proficiency testing

To demonstrate competency, each trainee shall show proficiency in both theory (classroom/online) and practical (hands-on). Results of the theory (classroom/online) and practical (hands-on) testing shall be documented. (see Annexes A to E for examples)

5.5 Documentation of training

5.5.1 Upon successful completion of the training programme, proof of training by the trainer or training entity shall be provided referencing compliance to this document.

5.5.2 Documentation shall be issued with:

a) name of entity providing training;

b) name of trainer delivering the training;

c) clear identification of the classification(s) of MEWP covered in training;

d) date of training completion;

e) name of trainee;

f) period of time training is valid (not to exceed 5-years).

6 Training content

6.1 General

6.1.1 Training content shall consist of a combination of theory (classroom/online) training (for example, lecture, discussion, e-learning, video tape, written material), and practical (hands-on) training (for example, demonstrations performed by the trainer, practical exercises performed by the trainee), and evaluation of the trainee's proficiency.

6.1.2 The user shall ensure that the training provided is being delivered in such a manner that the trainees will be capable of understanding.

6.2 Contents of theory (classroom/online) training

Theory (classroom/online) training shall include (as a minimum) the following items:

a) MEWP operator responsibilities as outlined in ISO 18893;

b) how and when to perform a worksite inspection;

c) how to select an appropriate MEWP for the task from the various classifications including available features/devices and options;

d) the purpose, use and typical content of the operator's manual, placards and safety labels, warnings and instructions, and applicable safety rules;

e) the location and storage of the operator’s manual, and the importance of keeping it maintained in the weather-resistant storage compartment on the MEWP when not in use;

f) how to perform a pre-start inspection (see ISO 18893);

g) knowing and understanding factors affecting stability (see ISO 18893);

h) recognition and avoidance of hazards associated with operation (see ISO 18893);

i) understanding of the intended purpose and function of typical MEWP controls, including platform, ground, and auxiliary lowering controls;

j) responsibilities associated with addressing problems or malfunctions which could affect the operation of the MEWP;

k) use of personal protective equipment (PPE) appropriate to the task, worksite and environment, including those required by the manufacturer;

l) safe travelling practices;

m) issues associated with transport of a MEWP (if appropriate);

n) understanding that securing the MEWP from unauthorized use is required;

o) the requirement for familiarization in addition to training;

p) applicable regulations, standards, and safety rules;

q) how to validate that the annual inspection is current (if applicable);

r) knowing and understanding wind hazards and weather conditions and their potential effect on MEWP stability;

s) understanding that authorization by the user is required to operate MEWP;

t) understanding of hazardous location(s) (flammable or explosive atmospheres);

u) warnings and instructions on the MEWP;

v) familiarity with the requirements of operators (see ISO 18893);

w) hazards associated with high pressure systems;

x) the responsibility of operators to provide work platform occupants of the basic level of knowledge required to work safely on the MEWP stated in ISO 18893:2024, 6.5;

y) other subjects required by the manufacturer.

6.3 Contents of practical (hands-on) training

Under direction and evaluation of the trainer, the trainee shall operate the MEWP for a sufficient period of time to demonstrate proficiency regarding the following:

a) walk around and familiarization with MEWP;

b) major components – identification and function;

c) perform pre-start inspection – carry out daily checks and inspections;

d) planning the route of travel and worksite inspection;

e) setting up the MEWP for work (if applicable);

f) operation and function of all controls – completing course tasks;

g) parking and securing the MEWP.

Annex A
(informative)

Example of knowledge evaluation sheet

TYPE 1, TYPE 2 & TYPE 3 MEWPs		
Training Date: _____		
Name of training entity: _____ Name of trainer: _____		
Name of trainee: _____		
MEWP(s) covered: _____		
Mark if acceptable		
PUBLIC SAFETY	Know the manufacturer's obligations	
REGULATIONS, STANDARDS AND TEXTS	Know the users' obligations (training, issuing of the authorization to drive) and the operator's responsibility	
CLASSIFICATION	Know MEWP classifications by category	
TECHNOLOGY	Know the technology of the different elements of the MEWP	
CHARACTERISTICS	As a function of the different categories of MEWP, able to identify the characteristics of each category, the common uses, the advantages and disadvantages	
SAFETY	Know how to choose a MEWP depending on the nominal load, working height, nature of work	
	Know the rules for minimizing the risks of electrocution	
	Know how to determine load restrictions	
	Know the rules for driving, travelling and parking and protection against unauthorized use	
	Know the main hazards: overturning (wind, nature of the ground, work-platform load) falling, impact, etc.	
	Know the rules for stability and use	
	Know the safety devices and common checks and maintenance to be carried out	
	Know how to perform function tests prior to use	
	Know the orders and movements linked to use of emergency controls	
	Know the function and use of manuals, decals and placards	
	Know how to carry out a pre-start inspection	
	Know how to carry out a work-site inspection	

Annex B
(informative)

Practical knowledge evaluation test for type 1 MEWPs — Example

TYPE 1 MEWPs

Training date: _____

OBSERVATIONS

Name of training entity: _____ Name of trainer: _____

Name of trainee: _____

MEWP(s) covered: _____

Mark if acceptable

		Vertical axis[a]	Work platform movement[b]	
SUITABILITY	Determine suitability of MEWP for the application	X	X	
VERIFICATION	Visually check the condition of the MEWP	X	X	
	Verify that the safety features operate correctly	X	X	
POSITIONING	Properly interpret and execute commands	X	X	
	Position the unit at a location	X	X	
	Bring the MEWP into service	X	X	
	Set up the markers and signs	X	X	
	Adjust the stabilizers (if equipped)	X	X	
	Set-up and position the MEWP per operator's manual	X	X	
	Move the work platform parallel to a flat vertical surface	X	X	
	Position the work platform above a flat surface	X	X	
	Position the work platform below a flat surface	X	X	
	Move the work platform across this surface		X	
	Position the work platform in a limited space		X	
	Put the MEWP into the transport position	X	X	
	Smoothness of the manoeuvres	X	X	
	Accuracy of the manoeuvres	X	X	
EMERGENCY	Perform recovery manoeuvres	X	X	
	Perform rescue manoeuvres (from the ground position)	X	X	

a Vertical movements of the work platform due to movements of the lifting structure. It includes awareness of the position of the platform and lifting structure when raising and lowering the platform and when slewing the lifting structure.

b Any movement of the work platform excluding movements resulting from operation of the lifting structure. This includes horizontal platform movements when the MEWP base is moved, vertical and horizontal platform movements caused by travelling over uneven ground, bounce and sway resulting from lifting structure flexing.

Annex C
(informative)

Practical knowledge evaluation test for type 2 MEWPs — Example

TYPE 2 MEWPs — SECTION 1

Training date: _____

OBSERVATIONS

Name of training entity: _____ Name of trainer: _____

Name of trainee: _____

MEWP(s) covered: _____

Mark if acceptable

		Vertical axis[a]	Work platform movement[b]	
SUITABILITY	Determine suitability of MEWP for the application	X	X	
VERIFICATION	Visually check the condition of the MEWP	X	X	
	Verify that the safety features operate correctly	X	X	
POSITIONING	Properly interpret and execute commands	X	X	
	Properly give commands to position the vehicle	X	X	
	Position the platform along a flat vertical surface	X	X	
	Move the work platform parallel to a flat vertical surface	X	X	
	Position the platform above a flat surface		X	
	Position the platform below a flat surface	X	X	
	Move the platform across this surface		X	
	Position the platform in a limited space	X	X	
	Behaviour in the event of an inclination warning	X	X	
	Put the MEWP into the transport position	X	X	
	Smoothness of the manoeuvres	X	X	
	Accuracy of the manoeuvres	X	X	
EMERGENCY	Perform recovery manoeuvres	X	X	
	Perform rescue manoeuvres (from the ground position)	X	X	

a Vertical movements of the work platform due to movements of the lifting structure. It includes awareness of the position of the platform and lifting structure when raising and lowering the platform and when slewing the lifting structure.

b Any movement of the work platform excluding movements resulting from operation of the lifting structure. This includes horizontal platform movements when the MEWP base is moved, vertical and horizontal platform movements caused by travelling over uneven ground, bounce and sway resulting from lifting structure flexing.

TYPE 2 MEWPs — SECTION 2

Training date: _____

OBSERVATIONS

Name of training entity: _____ Name of trainer: _____

Name of trainee: _____

MEWP(s) covered: _____

Mark if acceptable

			Vertical axis[a]	Work platform movement[b]	
POSITIONING		Position the unit at a location	X	X	
SUITABILITY		Determine suitability of MEWP for the application	X	X	
TRAVELLING		Visually check the condition of the MEWP	X	X	
Platform raised	Platform on vehicle axis (forwards or backwards)	Travel in a straight line forwards	X	X	
		Travel in a straight line backwards	X	X	
		Travel in a curve (slalom, bend) forwards	X	X	
		Travel in a curve (slalom, bend) backwards	X	X	
	Platform at right angles to vehicle to left or right	Travel in a straight line forwards		X	
		Travel in a straight line backwards		X	
		Travel in a curve (slalom, bend) forwards		X	
		Travel in a curve (slalom, bend) backwards		X	
		Travel with simultaneous platform movements	X	X	
VERIFICATION		Properly interpret and execute the commands	X	X	
		Travel across different types of ground approved by the manufacturer	X	X	
		Use the audible warning correctly	X	X	
		Look backwards before moving backwards	X	X	
		Respect for travelling rules and notice boards	X	X	
		Adapt driving to suit the traffic conditions (congestion, bend, etc.)	X	X	
		Smoothness of manoeuvres	X	X	
		Accuracy of manoeuvres	X	X	
		Behaviour in the event of an inclination warning	X	X	
		Performance of shutdown procedure for MEWP	X	X	

a Vertical movements of the work platform due to movements of the lifting structure. It includes awareness of the position of the platform and lifting structure when raising and lowering the platform and when slewing the lifting structure.

b Any movement of the work platform excluding movements resulting from operation of the lifting structure. This includes horizontal platform movements when the MEWP base is moved, vertical and horizontal platform movements caused by travelling over uneven ground, bounce and sway resulting from lifting structure flexing.

Annex D
(informative)

Practical knowledge evaluation test for type 3 MEWPs — Example

TYPE 3 MEWPs					
Training date: _____					
OBSERVATIONS					
Name of training entity: _____ Name of trainer: _____					
The trainee is capable of: _____					
Mark if acceptable					
			Vertical axis[a]	**Work platform movement[b]**	
SUITABILITY		Determine suitability of MEWP for the application	X	X	
VERIFICATION		Visually check the condition of the MEWP	X	X	
		Verify that the safety features operate correctly	X	X	
Platform raised	Platform in direction of travel	Travel in a straight line forwards	X	X	
		Travel in a straight line backwards	X	X	
		Travel in a curve (slalom, bend) forwards	X	X	
		Travel in a curve (slalom, bend) backwards	X	X	
	Platform in opposite direction to travel	Travel in a straight line forwards		X	
		Travel in a straight line backwards		X	
		Travel in a curve (slalom, bend) forwards		X	
		Travel in a curve (slalom, bend) backwards		X	
	Platform at right angles to direction of travel	Travel in a straight line forwards		X	
		Travel in a straight line backwards		X	
		Travel in a curve (slalom, bend) forwards		X	
		Travel in a curve (slalom, bend) backwards		X	

TYPE 3 MEWPs

Training date: _____

OBSERVATIONS

Name of training entity: _____ Name of trainer: _____

Name of trainee: _____

The trainee is capable of: _____

Mark if acceptable

		Vertical axis[a]	Work platform movement[b]	
TRAVELLING	Travel across different types of ground approved by the manufacturer	X	X	
	Use the audible warning correctly	X	X	
	Look backwards before moving backwards	X	X	
	Respect for travelling rules and notice boards	X	X	
	Adapt driving to suit the traffic conditions (congestion, bend, etc.)	X	X	
	Smoothness of manoeuvres	X	X	
	Accuracy of manoeuvres	X	X	
POSITIONING	Properly interpret and execute the commands	X	X	
	Position the unit at a location	X	X	
	Position the work platform along a flat vertical surface	X	X	
	Move the work platform along a flat vertical surface	X	X	
	Position the work platform above a flat surface		X	
	Move the work platform across this surface		X	
	Position the work platform below a flat surface	X	X	
	Move the work platform across this surface	X	X	
	Position the work platform in a restricted space		X	
	Behaviour in the event of an inclination warning	X	X	
	Move and position the platform with combined movements	X	X	
	Performance of shutdown procedure for the MEWP	X	X	
EMERGENCY	Perform recovery manoeuvres	X	X	
	Perform rescue manoeuvres (from the ground position) including the involvement of an unskilled person on ground.	X	X	

a Vertical movements of the work platform due to movements of the lifting structure. It includes awareness of the position of the platform and lifting structure when raising and lowering the platform and when slewing the lifting structure.

b Any movement of the work platform excluding movements resulting from operation of the lifting structure. This includes horizontal platform movements when the MEWP base is moved, vertical and horizontal platform movements caused by travelling over uneven ground, bounce and sway resulting from lifting structure flexing.