SPECIFIC SAFETY INSTRUCTION SSI-M-1-5

MOBILE ELEVATING WORK PLATFORMS, SUSPENDED PLATFORMS, MAST-CLIMBING PLATFORMS AND RAIL-DEPENDENT STORAGE AND RETRIEVAL EQUIPMENT
1 INTRODUCTION

For the convenience of the reader, this Specific Safety Instruction uses the masculine gender only. However, its use shall be understood as referring to both genders unless the context clearly indicates a reference to one gender only.

1.1 Legal basis

In accordance with its intergovernmental status, the Organization establishes and updates Safety Rules to implement its Safety Policy.

This Specific Safety Instruction forms part of the CERN Safety Rules and is issued pursuant to the Staff Rules and Regulations and the CERN Safety Policy.

1.2 Purpose and scope

The purpose of this Specific Safety Instruction is to define the additional Safety requirements relating to mobile elevating work platforms (MEWP), suspended platforms, mast-climbing platforms and rail-dependent storage and retrieval equipment, and their components, compared to General Safety Instruction GSI-M-1 “Lifting equipment and accessories”.

This equipment includes: mobile elevating work platforms installed temporarily or permanently, powered manually or electrically, used to move people, equipment and materials to and from a single starting point, and which are designed to be used by one or more people to carry out their work.

Platforms used by the firefighters and other emergency services are excluded from the scope of this Specific Safety Instruction.

1.3 Definitions

For the purposes of this Specific Safety Instruction, the following definitions shall apply:

- **Applicable Laws**: all laws, treaties, rules, regulations and orders of any local, national or other authority having jurisdiction over a contractor or a collaborating institution.
- **Category B platform**: boom-type elevating work platform.
- **Examination of the condition of lifting equipment**: examination whose purpose is to check that the lifting equipment and its supports are in good condition and to identify any wear and tear that could represent a hazard and which must include the following essential components:
  - chocking, anchoring and braking devices designed to immobilise mobile lifting equipment when not in operation;
  - brakes or equivalent devices designed to stop and then maintain the load or equipment in all positions;
  - devices designed to control the lowering of loads;
  - lifting blocks and pulley rims;
  - load and tipping/moment limiters;
  - devices limiting the movements of the lifting equipment and the load, such as motion limiters, derricking limiters, slewing limiters, anti-collision devices and fall protection devices;
  - hooks and mechanical, electromagnetic or pneumatic gripping devices;
  - load-bearing cables and chains.
- **Member of the Personnel**: CERN Members of the Personnel as defined by the CERN Staff Rules and Regulations. Members of the Personnel comprise both employed and associated Members of the Personnel.
- **Non-integrated** work platform: equipment used with a forklift truck that does not have an incorporated control mechanism and whose function is to lift people to allow them to work at a height.
• **Operating test of lifting equipment:**
  test consisting in:
  − using the lifting equipment, with or without its accessories, to move a test load into the most unfavourable positions, applying a force to the mechanical components corresponding to the maximum values of the capacity stated by the manufacturer;
  − verifying the operating efficiency:
    • of the brakes or equivalent devices designed to stop and then maintain the load or equipment in all positions;
    • of the systems designed to control the lowering of the loads;
    • of the systems limiting the movements of the lifting equipment and the load, such as motion limiters, derricking limiters, slewing limiters, anti-collision devices and fall protection devices;
    • triggering the load-moment limiters and overturning-moment limiters, where they exist, in order to check that they operate correctly at the values defined in the manufacturer’s instructions or, where no instructions exist, at values beyond the maximum operating load and at least 1.1 times the load or maximum moment.

• **Test organisation:** entity holding a qualification from a qualification-certifying organisation.

• **User entity:** organic unit or contractor authorised to use an item of mechanical equipment belonging to or hired by CERN or a collaborating institution.

For other definitions please refer to section 1.3 of Safety Regulation SR-M “Mechanical equipment” and to General Safety Instruction GSI-M-1 “Lifting equipment and accessories”.

1.4 **CERN Safety Rules and Laws**

This Specific Safety Instruction is supplemented by the documents listed below, where they exist:

• Safety Regulations (SR);
• General Safety Instructions (GSI);
• Specific Safety Instructions (SSI);

and by the relevant provisions of the following Laws:

• Arrêté du 1er mars 2004 relatif aux vérifications des appareils et accessoires de levage (France).
• Arrêté du 2 décembre 1998 relatif à la formation à la conduite des équipements de travail mobiles automoteurs et des équipements de levage de charges ou de personnes (France).
• EN 1808 – Safety requirements on suspended access equipment – Design calculations – Stability criteria – Construction – Tests (Europe).
• EN 1495 – Lifting platforms – Mast-climbing work platforms (Europe).
• EN 528 – Rail-dependent storage and retrieval equipment – Safety requirements (Europe).

In the event of any ambiguity or contradiction between the above-mentioned documents, they shall apply in decreasing order of priority, starting from the top.
2 ADDITIONAL SAFETY REQUIREMENTS COMPARED TO GSI-M-1

The following additional Safety requirements compared to General Safety Instruction GSI-M-1 shall apply to mobile elevating work platforms, suspended platforms, mast-climbing platforms, rail-dependent storage and retrieval equipment, and their components:

<table>
<thead>
<tr>
<th>Relevant. section of GSI-M-1</th>
<th>Phase of life cycle</th>
<th>Additional Safety requirements compared to GSI-M-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1</td>
<td>Design</td>
<td>Illustrative examples</td>
</tr>
<tr>
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<td></td>
<td>Mobile elevating work platforms (MEWP) and their components shall be designed to meet standard EN 280.</td>
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<td>Suspended platforms and their components shall be designed to meet standard EN 1808.</td>
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<td>Mast-climbing platforms and their components shall be designed to meet standards EN 1495 and EN 280.</td>
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<td>Rail-dependent storage and retrieval equipment and their components shall be designed to meet standard EN 528.</td>
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<td>2.2</td>
<td>Manufacture</td>
<td>Illustrative examples</td>
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<td>Manufacture at CERN is prohibited. Adjustments are authorised, provided that they are made in accordance with the manufacturer’s instructions and with the approval of the HSE Unit.</td>
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<td>2.3</td>
<td>Procurement or arrival/presence on the CERN site</td>
<td>No additional Safety requirement compared to GSI-M-1.</td>
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<td>2.4</td>
<td>Installation</td>
<td>Illustrative examples</td>
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<td></td>
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<td>The assembly and installation test is not applicable for mobile elevating work platforms (MEWP).</td>
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<td>2.5</td>
<td>Acceptance and commissioning</td>
<td>No additional Safety requirement compared to GSI-M-1.</td>
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<td>2.6</td>
<td>Use</td>
<td>Illustrative examples</td>
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<td>The use of “non-integrated” work platforms is prohibited at CERN. For category B platforms or if the instruction manual specifies that a harness must be worn, it is compulsory to wear a harness with a view to ensuring that persons are not ejected from the equipment. The user entity shall ensure that persons under its responsibility1 using mobile elevating work platforms, suspended platforms, mast-climbing platforms, rail-dependent storage and retrieval equipment: • have received training in accordance with chapter 3, including recycling if applicable; • have been declared medically fit; • have been provided with the relevant training for their workplace or workstation.</td>
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</table>

1 In the case of associated Members of the Personnel, the employer shall certify that its personnel have the required qualifications and training.
<table>
<thead>
<tr>
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<th>Phase of life cycle</th>
<th>Additional Safety requirements compared to GSI-M-1</th>
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</table>
| 2.7                         | Periodic inspections | In case of power-driven equipment the following examination and test are required:  
|                             |                    | • examination of the condition and operating test: twice-yearly or at intervals specified by the manufacturer if required more than every six months.  
|                             |                    | In case of manual equipment the following examination and test are required:  
|                             |                    | • examination of the condition and operating test: quarterly or at intervals specified by the manufacturer if required more than every three months. |
| 2.8                         | Maintenance        | No additional Safety requirement compared to GSI-M-1. |
| 2.9                         | Recommissioning    | Following dismantling/reassembly, recommissioning shall be carried out in accordance with section 2.5 of GSI-M-1. |
| 2.10                        | Decommissioning/dismantling | No additional Safety requirement compared to GSI-M-1. |

3 TRAINING

For Members of the Personnel CERN recognises the following training:

- a CACES (Certificat d’Aptitude à la Conduite En Sécurité) certificate issued by a test organisation, or
- a training course of a level equivalent to that of a course provided by the ASL (Association suisse de logistique). The training body shall be recognised by the SUVA (Swiss Accident Insurance Fund) and shall have supplied proof that the training and examination follow the recommendations of the ASL and are conducted by a specialised instructor holding a certificate issued by the ASL or the ASFL (Association Suisse pour la Formation professionnelle en Logistique), or
- the CERN training course for MEWPs: "Mobile Elevated Working Platform - Driving".

Contractors' personnel shall have successfully completed training in accordance with the Applicable Laws.

4 FINAL PROVISIONS

4.1 Entry into force

This Specific Safety Instruction (version 1) enters into force upon its publication on the CERN website dedicated to the CERN Safety Rules: [https://www.cern.ch/safety-rules](https://www.cern.ch/safety-rules).