SPECIFIC SAFETY INSTRUCTION SSI-M-1-1

SLINGS AND LIFTING CHAINS
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 slings and lifting chains, compared to General Safety Instruction GSI-M-1 “Lifting equipment and accessories”.

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.
- **Examination of the condition of lifting accessories**: examination whose purpose is to check that the lifting accessories are in good condition and to identify any wear and tear that could represent a hazard.
- **Members 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.
- **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 1492 – Textile slings – Safety** (Europe).
- **EN 13414 – Steel wire rope slings – Safety** (Europe).
- **EN 818 – Short-link chain for lifting purposes – Safety** (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.
## ADDITIONAL SAFETY REQUIREMENTS COMPARED TO GSI-M-1

The following additional Safety requirements compared to General Safety Instruction GSI-M-1 shall apply to slings and lifting chains:

<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>
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<td>2.2</td>
<td>Manufacture</td>
<td>Manufacture at CERN is prohibited.</td>
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<tr>
<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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<tr>
<td>2.4</td>
<td>Installation</td>
<td>Section 2.4 of GSI-M-1 is not applicable.</td>
</tr>
</tbody>
</table>
| 2.5                         | Acceptance and commissioning | In the case of slings and lifting chains only the following checks are required: | • a check of the Safety File; | • a visual check.  
|                             |                     | • The user entity shall ensure that persons under its responsibility using lifting equipment with slings and lifting chains: | • 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.  
|                             |                     | 2.6 Use                                           | Examination of the condition of lifting accessories: annually or at intervals specified by the manufacturer if required more than once per year. | 2.7 Periodic inspections | 2.8 Maintenance | 2.9 Recommissioning  
|                             |                     |                                                  | The repair of slings is prohibited, except where the manufacturer provides for the replacement of faulty components by identical new components. | Recommissioning is prohibited, except in the case of slings repaired as specified in section 2.8 of this Specific Safety Instruction; these repaired slings shall be recommissioned in accordance with section 2.5 above. |  

1 In the case of associated Members of the Personnel, the employer shall certify that its personnel have the required qualifications and training.
3 TRAINING

For Members of the Personnel CERN recognises the “Overhead Crane – Operator and Slinger” training course provided by:

- an organisation approved by the French authorities, or
- a training body recognised by SUVA (Swiss Accident Insurance Fund), or
- CERN.

 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).