

## 3 SAFETY

### 3.1 Training Requirements

**LoadMate® Series Electric Chain Hoist** operator, inspector, and maintenance personnel training programs should be based on requirements in accordance with the latest edition of:

- **ASME B30.16 Safety Standard for Overhead Hoists ( Underhung )**

Such training programs should also provide information for compliance with any Federal, State, or Local Code requirements, existing plant safety rules and regulations, and **LoadMate® Series Electric Chain Hoist** Operator's Manual and the appropriate **LoadMate®** Installation and Maintenance Manual.

If an overhead hoist is installed as part of an overhead crane or monorail system, training programs should also include requirements in accordance with the latest edition, as applicable, of:

- **ASME B30.2 Safety Standard for Overhead and Gantry Cranes, Top Running Bridge, Single or Multiple Girder, Top Running Trolley Hoist**
- **ASME B30.11 Safety Standard for Monorails and Underhung Cranes**
- **ASME B30.17 Safety Standard for Overhead and Gantry Cranes, Top Running Bridge, Single Girder, Underhung Hoist.**

## 3.2 Introduction to Safety

Read and understand this manual before using the hoist.

Important issues to remember during installation, operation, maintenance, and inspection are provided at the hoist control stations, at various locations on the hoist, in this manual, and in the **LoadMate® Electric Chain Hoist Operator's Manual**. These issues are indicated by **DANGER**, **WARNING**, or **CAUTION** instructions or placards that alert personnel to potential hazards, proper operation, load limitations, and more.



**DANGER:** Indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.



**WARNING:** Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.



**CAUTION:** Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

The words **SHALL** and **SHOULD** are used throughout this manual in accordance with the definitions in the ASME B30 standards as follows:

**SHALL** indicates that a rule is mandatory and must be followed.

**SHOULD** indicates that a rule is a recommendation, the advisability of which depends on the facts in each situation.

Taking precedence over any specific rule, however, is the most important rule of all:

**“USE COMMON SENSE”**

### 3.3 Owner / User / Operator Responsibilities

**READ** and **OBEY** all **DANGER**, **WARNING**, **CAUTION**, and **OPERATION INSTRUCTIONS** on the hoist and in this manual. Make sure that all placards are in place and legible.

Failure to comply with safety precautions in this manual and on the hoist is a safety violation that may result in product failure, serious injury, death, or property damage.



**NOTE:** It is important that warning, control marking, and other safety labels and signs are present on the hoist and that the information on the label or sign is legible.



**WARNING:** Failure to read and comply with any one of the limitations noted in this manual and the Installation and Maintenance Manual furnished by **R&M Materials Handling, Inc.** can result in product failure, serious bodily injury or death, and/or property damage.

Conforming to good safety practices is the responsibility of the owner, the user, and its operating personnel. The hoist manufacturer has no direct involvement or control over the hoist's operation and application.

It is a responsibility of the hoist owner / user to establish programs to:

**TRAIN** and designate hoist operators, and

**TRAIN** and designate hoist inspection and maintenance personnel

Only those **Qualified Personnel** who have shown that they have read and have understood this manual and that they understand the proper operation of the hoist should be authorized to operate and/or repair the hoist.



**NOTE:** It is a responsibility of the owner / user to install, inspect, test, maintain, and operate a hoist in accordance with the ASME B30.16 Safety Standard, OSHA Regulations, and ANSI / NFPA 70, National Electric Code. If the hoist is installed as part of a total lifting system, it is also the responsibility of the owner / user to comply with the applicable ASME B30 volume that addresses other types of equipment used in the system.



Further, it is the responsibility of the owner / user to require that all personnel who will install, inspect, test, maintain, and operate a hoist read the contents of this manual, **LoadMate® Electric Chain Hoist Operator's Manual**, ASME B30.16 Safety Standards for Overhead Hoists (Underhung), OSHA Regulations, and ANSI / NFPA 70, National Electric Code. If the hoist is installed as part of a total lifting system, all personnel must also read the applicable ASME B30 volume that addresses other types of equipment used in the system.



**WARNING:** Before installing, removing, inspecting or performing any maintenance on a hoist the main switch shall be de-energized. Lock and tag the main switch in the de-energized position in accordance with ANSI Z244.1. Follow other maintenance procedures outlined in the Installation and Maintenance Manual furnished by R&M Materials Handling, Inc., and ASME B30.16.



**WARNING:** Failure to properly ground the hoist presents the danger of electric shock.



**WARNING:** An improper or insufficient ground connection creates an electrical shock hazard when touching any part of the hoist or trolley.

## 3.4 Recommended Operator Qualifications

### HOIST OPERATORS SHALL:

- Be required to read this manual (Electric Chain Hoist Operator's Manual).
- Be required to read the warnings in Installation and Maintenance Manual supplied with hoist.
- Be required to read the instructions and warning labels on the hoist.
- Be required to read the operating section of ASME B30.16.
- Be required to be familiar with the hoist controls before being authorized to operate the hoist.
- Be trained in proper rigging procedures to be followed in the attachment of loads to the hoist load hook.
- Be trained and be familiar with any below-the-hook devices that may be used in lifting of loads.
- Be trained to be aware of potential malfunctions of the hoist that may require adjustment or repair.
- Be instructed to stop operation if malfunctions occur, and to immediately advise their supervisor so corrective action can be taken.

### HOIST OPERATORS SHOULD:

- Have normal depth perception, field of vision, reaction time, manual dexterity, and coordination for the work to be performed.
- NOT** be subject to seizures, loss of physical control, physical defects, or emotional instability that could result in actions of the operator being a hazard to the operator or others.
- NOT** operate a hoist when under the influence of alcohol or drugs.
- NOT** operate a hoist when under the influence of medication that could result in actions of the operator being a hazard to the operator or others.