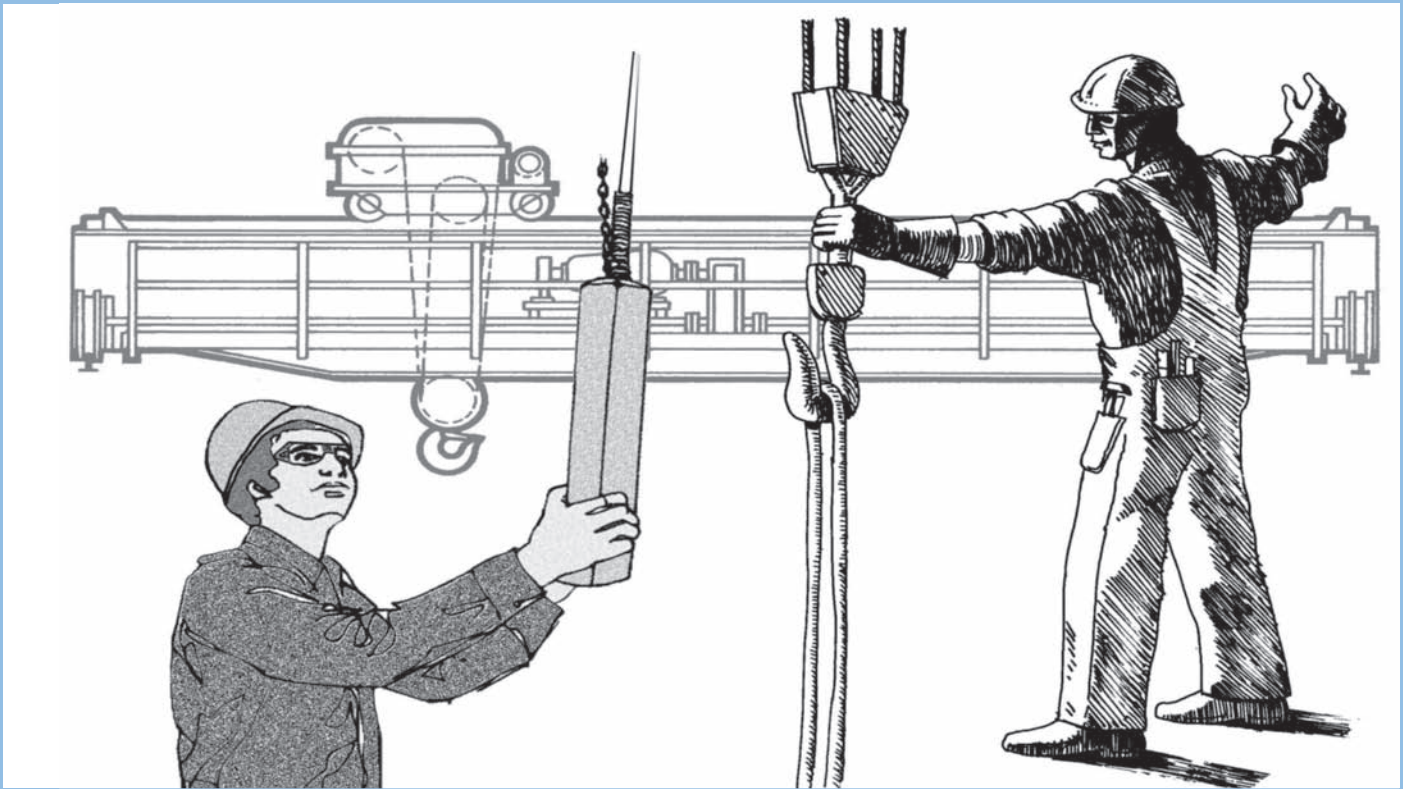


# Crane Operator's Manual

A Specification Prepared by  
The Crane Manufacturers Association  
of America Inc.

# 79



CMAA Specification #79, Revised 2012  
Supersedes April 2003



THE INDUSTRY THAT MAKES SUPPLY CHAINS WORK™

CMAA is an affiliate of MHI.

# TABLE OF CONTENTS

---

## SPECIFICATION # 79

### 79.1 Introduction and Disclaimer

- 1.1 CMAA
- 1.2 Material Handling Industry of America
- 1.3 Crane Operators Manual
- 1.4 Disclaimer and Indemnity
- 1.5 Reference Documents
- 1.6 Safety Alert Symbol & Placards

### 79.2 Crane Operators

- 2.1 Dedicated and Non-Dedicated Operators
- 2.2 Crane Application and Authorization
- 2.3 Placards and Instructions
- 2.4 Daily Inspections
- 2.5 Standard Hand Signals
- 2.6 Figure 1. Standard Hand Signals

### 79.3 Crane Motions

- 3.1 Axis of Directional Travel
- 3.2 Custom Cranes
- 3.3 Controlling the Load
- 3.4 Crane Brakes
- 3.5 Hoist Limit Devices
- 3.6 End Stops and Bumpers
- 3.7 Warning Devices
- 3.8 Outdoor Cranes

### 79.4 Inspections

- 4.1 Daily Inspections
- 4.2 Inspection Checklist
- 4.3 Frequent and Periodic Crane Inspections

### 79.5 Handling the Load

- 5.1 Operating Controls, Motions and Actions
- 5.2 Daily Operator Responsibilities
- 5.3 Before Operating the Crane and Applying the Load
- 5.4 Hoisting Motion
- 5.5 Raising A Load
- 5.6 Lowering A Load
- 5.7 Trolley Motion
- 5.8 Bridge Motion
- 5.9 Operator Actions While Operating the Crane
- 5.10 Operator Actions While Parking the Load
- 5.11 General Operator Shall & Shall Not's
- 5.12 General Operator Do Not's

### 79.6 Appendices

Appendix A:  
Terms Used to Identify Crane Types

Appendix B:  
Terms Used to Identify Crane-Brake Types

Appendix C:  
Figure 2. – Top Running Double Girder Bridge Crane with Trolley Hoist

Appendix D:  
Figure 3. – Top Running Single Girder Bridge Crane with Underhung Hoist