

# ANSI/ASSP A10.42-2000 (R2017)

## Rigging Qualifications and Responsibilities in the Construction Industry

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**ANSI/ASSE A10.42 – 2000 (R2017)**

**American National Standard  
Construction and Demolition Operations**

**Safety Requirements  
for Rigging Qualifications and Responsibilities**

Secretariat

**American Society of Safety Engineers**  
520 N. Northwest Highway  
Park Ridge, Illinois 60068

**Approved October 5, 2017**

**American National Standards Institute, Inc.**

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**Foreword** (This Foreword is not a part of American National Standard A10.42-2000 (R2017).)

This standard is one of a series of safety standards that have been formulated by the Accredited Standards Committee on Safety in Construction and Demolition Operations, A10. It is expected that the standards in the A10 series will find a major application in industry, serving as a guide to contractors, labor, and equipment manufacturers. For the convenience of users, a list of existing and proposed standards in the A10 series for Safety Requirements in Construction and Demolition Operations follows.

- A10.1 Pre-Project & Pre-Task Safety & Health Planning
- A10.2 Safety, Health and Environmental Training (under development)
- A10.3 Powder-Actuated Fastening Systems
- A10.4 Personnel Hoists and Employee Elevators
- A10.5 Material Hoists
- A10.6 Demolition Operations
- A10.7 Transportation, Storage, Handling and Use of Commercial Explosives and Blasting Agents
- A10.8 Scaffolding
- A10.9 Concrete and Masonry Construction
- A10.10 Temporary and Portable Space Heating Devices
- A10.11 Personnel Nets
- A10.12 Excavation
- A10.13 Steel Erection
- A10.15 Dredging
- A10.16 Tunnels, Shafts and Caissons
- A10.17 Safe Operating Practices for Hot Mix Asphalt (HMA) Construction
- A10.18 Temporary Roof and Floor Holes, Wall Openings, Stairways and Other Unprotected Edges
- A10.19 Pile Installation and Extraction Operations
- A10.20 Ceramic Tile, Terrazzo, and Marble Work
- A10.21 Safe Construction and Demolition of Wind Generation/Turbine Facilities (under development)
- A10.22 Rope-Guided and Non-Guided Workers' Hoists
- A10.23 Safety Requirements for the Installation of Drilled Shafts
- A10.24 Roofing – Safety Requirements for Low-Sloped Roofs
- A10.25 Sanitation in Construction
- A10.26 Emergency Procedures for Construction Sites
- A10.27 Hot Mix Asphalt Facilities
- A10.28 Work Platforms Suspended from Cranes or Derricks
- A10.29 Aerial Platforms in Construction (under development)
- A10.31 Digger-Derricks
- A10.32 Personal Fall Protection Used in Construction and Demolition Operations
- A10.33 Safety and Health Program Requirements for Multi-Employer Projects
- A10.34 Public Protection
- A10.37 Debris Nets
- A10.38 Basic Elements of a Program to Provide a Safe and Healthful Work Environment
- A10.39 Construction Safety and Health Audit Program
- A10.40 Reduction of Musculoskeletal Problems in Construction
- A10.42 Rigging Qualifications and Responsibilities in the Construction Industry
- A10.43 Confined Spaces in Construction and Demolition Operations
- A10.44 Lockout/Tagout in Construction
- A10.46 Hearing Loss Prevention
- A10.47 Highway Construction Safety
- A10.48 Communication Structures
- A10.49 Control of Health Hazards

One purpose of these standards is to serve as guides to governmental authorities having jurisdiction over subjects within the scope of the A10 Committee standards. If these standards are adopted for governmental use, the reference of other national codes or standards in individual volumes may be changed to refer to the corresponding regulations.

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## AMERICAN NATIONAL STANDARD A10.42 SAFETY REQUIREMENTS FOR RIGGING QUALIFICATIONS AND RESPONSIBILITIES

### 1. GENERAL

**1.1 Scope.** This standard establishes minimum criteria of knowledge and performance requirements for a qualified rigger in the construction industry.

**1.2 Purpose.** This standard is designed to assist in achieving reasonable safety of all persons and materials during the process of, or as the result of, rigging, lifting or moving of loads.

**1.3 Modifications and Exemptions.** In cases of practical difficulties, unnecessary hardships or new developments, exceptions to the literal requirements may be granted by the enforcing authority to permit the use of other devices or methods, but only when it is clearly indicated that the equivalent protection is thereby secured.

**1.4 Limitations.** This standard does not apply to the training required to be qualified as an operator of powered equipment. This standard does not apply to transportation of loads or maintenance or repair of powered or manual hoists, cranes, winches or other hoisting equipment.

NOTE: While the qualified rigger is required to know the basic principles and limits of lifting and hoisting equipment, they are expected to rely on qualified operators, mechanics, suppliers, engineers, managers and others involved for valid information, and for competent performance by these other persons in their respective roles. For instance, a rigger may be responsible to determine loads and the farthest radius of a pick, but then must rely on a crane operator to know the safe crane capacity for the configuration and setup of that crane. This principle also applies to operators of hoists, winches, helicopters, etc. Similarly, if a rigger

determines that a 5-ton picking beam is needed, they can rely on a manager, an engineer who provides specifications or a supplier who provides a product for the rigger's use.

**1.5 Mandatory and Advisory Rules.** Mandatory rules of this standard are characterized by the word "shall." If a rule is of an advisory nature, it is indicated by the word "should," or is stated as a recommendation or commentary. The Appendixes are advisory.

**1.6 Equivalent.** The word "equivalent" in this standard shall mean alternative materials, designs or features that will provide an equal degree of strength and safety.

### 2. DEFINITIONS

**2.1 ANSI.** American National Standards Institute

**2.2 Attachment.** A device other than conventional forks or load backrest extension, mounted permanently or removably on the elevating mechanism of a fork truck for handling the load. Popular types are fork extension clamps, rotating devices, side shifters, load stabilizers, rams and booms.

**2.3 Cable.** A term loosely applied to wire ropes, wire strands, manila ropes and electrical conductors.

**2.4 Clip.** A fitting used to clamp two parts of wire rope (also known as wire rope clip, wire rope clamp).

**2.5 Competent Person.** One who is capable of identifying existing and predictable hazards in the surroundings or working conditions that are unsanitary, hazardous or