

SECTION TWO – MIOSHA REGULATIONS

PART 3: MIOSHA SAFETY REGULATIONS

CHAPTER 36: Other MIOSHA Safety Standards

There are several MIOSHA standards with rules generally applicable to the manufacturing industry. Depending on the Standard Industrial Classification (SIC) Code, each manufacturing industry may be subject to selected rules developed to ensure the health and safety of its employees. These standards may include:

36.1 Welding and Cutting

The [MIOSHA General Industry Safety Standards - Part 12, Welding and Cutting](#) this standard is intended to provide, in, about or around places of employment, reasonable safety to persons involved in welding, cutting, brazing, soldering and acetylene generating and to those exposed to these processes and the equipment and compressed gases used. It also includes those exposed to these processes, as well as the equipment and compressed gases used.



Part 12 covers employer and employee responsibility including training, inspection, testing, and the use of personal protective equipment. The standard specifies who is qualified to use and how to use welding and cutting equipment in confined spaces. The rules discuss the construction, storage, and handling of cylinders. Other topics reviewed are manifolding, service piping, protective devices, hoses, and regulators. Arc welding and cutting and acetylene generators are also discussed.

36.2 Fixed Ladders

The [MIOSHA General Industry Safety Standards - Part 3, Fixed Ladders](#) establishes the minimum standards for the design and installation of fixed ladders and their safe use by employees. Utility poles; radio and television transmission towers are excluded from this part.

This standard covers rules on surface conditions and clearances, employee training, ladder design, use restrictions, maintenance, design of manhole steps, and periodic testing for fall arrest systems.

In This Chapter...

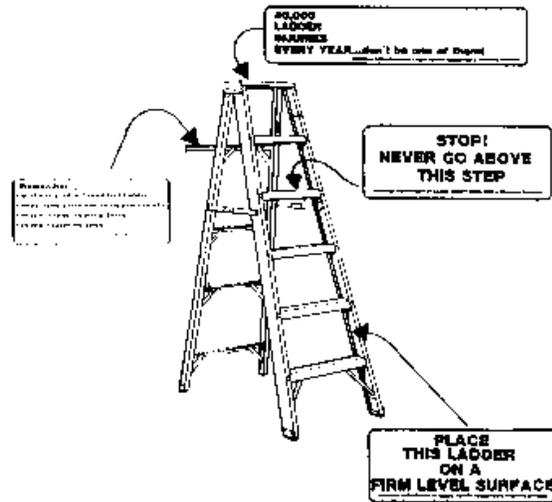
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36.3 Portable Ladders

The *MIOSHA General Industry Safety Standards - Part 4, Portable Ladders* establishes minimum requirements for the construction, care, and use of portable ladders used in and about places of employment. It specifies types and use of wood, non-wood, and special-purpose ladders. It also specifies the handling, transportation, maintenance, inspection, and repair of all ladders.



Placement of Ladder Safety Stickers



36.4 Abrasive Wheels

The *MIOSHA General Industry Safety Standards - Part 1A, Abrasive Wheels* sets forth rules and specifications for the safe use of abrasive wheels in, around, and about places of employment. *Part 1A* identifies several types of grinding wheels, classified according to their appearance. The provisions provided include specifications for safety guards, flange construction and maintenance, as well as rules for storage, handling, mounting, and use of grinding wheels.

36.5 Hand and Portable Powered Tools

The *MIOSHA General Industry Safety Standards - Part 38, Hand and Portable Powered Tools* provides for the safe maintenance; operation; and use of hand tools and portable powered tools, regardless of ownership, in, around, or about a place of employment.

Part 38 outlines employee/employer responsibility and establishes requirements for proper storage and handling, equipment inspection, and control devices. A number of provisions are provided for specific hand tools (knives, pliers, hot sticks, etc.) and powered tools (circular saws, staplers, nailers, pneumatic grinders, etc.). These provisions identify how to properly inspect, operate, and maintain the tools in accordance with the standard. In addition, there are also several provisions that address the proper design, training, and operation of power-actuated tools (devices used for making forced entry into materials by use of a tool, a fastener, and an explosive load).



36.6 Air Receivers

The **MIOSHA General Industry Safety Standards - Part 93, Air Receivers** applies to compressed air receivers and other equipment used in providing and utilizing compressed air for performing operations such as cleaning, drilling, hoisting, and chipping. Essentially, **Part 93** establishes requirements for the proper installation of air receivers as well as any equipment used in conjunction with them (drains, gauges, valves, handholes, etc.).

36.7 Polishing, Buffing, and Abrading

The **MIOSHA General Industry Safety Standards - Part 11, Polishing, Buffing, and Abrading** sets forth rules for safety in the use of buffing and polishing wheels and coated abrasives. This standard provides specifications for flanges, guards, fixtures, proper illumination, and operation. **Part 11** also includes operator personal protection requirements and provides that precautions be taken to protect against fire and explosion.

36.8 Refuse Packer Units

The **MIOSHA General Industry Safety Standards - Part 17 Refuse Packer Units** applies to the safe design, use, and maintenance of mobile and stationary equipment used in the collection and compaction of solid waste in, around, or about places of employment. **Part 17** includes general provisions that cover employer/employee responsibility, refuse packer operation, hoisting cables and chains, hydraulic piping, and lights. In addition, the standard also provides special provisions for both mobile and stationary units. These provisions identify special requirements for warning devices, controls, guards, as well as loading and unloading.

36.9 Conveyors

The **MIOSHA General Industry Safety Standards - Part 14, Conveyors** applies to the construction, maintenance, and operation of conveyors and conveying machinery. Conveyor is defined in the Rule as "a horizontal, inclined, or vertical device for moving or transporting bulk materials, packages, or objects in a predetermined path by design and having points of loading or discharge fixed or selective." **Part 14** provides several design provisions for conveyors, such as guarding, as well as electrical provisions that cover items like starting buttons and stop devices. Also included are specific provisions that regulate individual types of conveyors.

36.10 Overhead and Gantry Cranes

The *MIOSHA General Industry Safety Standards - Part 18, Overhead and Gantry Cranes* covers the equipment, installation, maintenance, and operation of top running overhead and gantry single and multiple girder cranes. This part does not apply to top running overhead cranes with push-type bridge and trolley, monorails, railway or truck cranes, mine hoists, conveyors, shovels, drag-line excavators, equipment used on construction jobs or systems used to transport people. **Part 18** provides several provisions for construction, installation, and equipment, as well as regulations for operator training and testing. Also included are a number of provisions that pertain to inspection protocol and proper maintenance.

36.11 Crawler, Locomotive, and Truck Cranes

The *MIOSHA General Industry Safety Standards - Part 19, Crawler, Locomotive, and Truck Cranes* pertains to the safe construction and maintenance by the employer and safe use by the employee of crawler, locomotive, and truck cranes including mobile hydraulic cranes used only as lifting cranes. **Part 19** provides several sections that address operating practices and required training as well as inspection procedures and maintenance programs.

36.12 Underhung Cranes and Monorail Systems

The *MIOSHA General Industry Safety Standards - Part 20, Underhung Cranes and Monorail Systems* applies to power-driven cranes, classified as underhung, single-leg gantry, and jib, operating on the bottom flange of a track section and to single-track monorail systems. This part does not apply to monorail systems used only to transport personnel or to monorail-type conveyor systems, commonly referred to as overhead trolley conveyors or power and free trolley conveyors. **Part 20** provides regulations for the construction, installation, and testing of these types of systems. Also included are provisions for operator training and proper operation, as well as several rules regarding inspection and maintenance procedures.

36.13 Slings

The *MIOSHA General Industry Safety Standards - Part 49, Slings* sets forth the requirements for slings, their construction, care, and use. This part pertains to several types of slings including: chain, wire rope, metal mesh, 3-strand natural or synthetic rope, and synthetic web made from nylon, polyester, and polypropylene. **Part 49** provides rules for each type of sling mentioned previously and addresses, among other things, inspection, repairs, rated capacities, and attachments.