

SAFETY EQUIPMENT REQUIREMENTS BY STATION

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NaviFloor Robotics, Inc.

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1. PURPOSE AND SCOPE

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1. This document establishes mandatory safety equipment requirements for a

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2. These requirements apply to all Company employees, contractors, and visitors.

2. DEFINITIONS

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1. "Active Testing Zone" means any area where AMR systems undergo performance testing.

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2. "Maintenance Bay" refers to designated areas for robot repair and maintenance.

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3. "Control Station" means workstations where operators monitor and control AMRs.

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4. "High-Traffic Zone" means areas where AMRs regularly interface with human workers.

3. GENERAL SAFETY REQUIREMENTS

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1. All personnel must complete Company-approved safety training before ac

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2. Personal Protective Equipment (PPE) must be worn as specified for each s

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3. Emergency stop systems must be accessible within 10 feet of any operatio

4. STATION-SPECIFIC REQUIREMENTS

4.1. Active Testing Zone Requirements

a) Mandatory Equipment:

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Impact-resistant safety glasses (ANSI Z87.1 certified)

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Steel-toed safety boots (ASTM F2413-18 compliant)

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High-visibility vest (Class 2 ANSI/ISEA 107-2020)

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Emergency stop remote control

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LiDAR detection warning system

b) Environmental Controls:

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Minimum 15-foot clearance zone

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LED warning system indicators

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Physical barriers or marked exclusion zones

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Overhead emergency shut-off system

4.2. Maintenance Bay Requirements

a) Mandatory Equipment:

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Insulated gloves (Class 0, ASTM D120)

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ESD-safe workstation components

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Lockout/tagout devices

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Battery handling equipment

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Chemical spill kit

b) Safety Infrastructure:

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Ventilation system (minimum 6 air changes per hour)

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Eye wash station within 25 feet

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Fire suppression system (Class C rated)

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Grounded work surfaces

4.3. Control Station Requirements

a) Mandatory Equipment:

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Emergency override controls

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Dual-monitor tracking system

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Backup power supply

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Communication system with redundancy

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Station-specific emergency procedures manual

b) Ergonomic Requirements:

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Adjustable seating (BIFMA G1-2013 compliant)

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Anti-fatigue floor mats

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Proper lighting (minimum 500 lux at work surface)

5. EMERGENCY RESPONSE EQUIPMENT

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1. Each operational area must maintain:

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First aid kit (ANSI/ISEA Z308.1-2015 compliant)

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ABC fire extinguisher

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Emergency communication device

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Evacuation route map

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Emergency contact information

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2. Monthly inspections of all emergency equipment must be documented and

6. COMPLIANCE AND ENFORCEMENT

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1. Station supervisors are responsible for ensuring compliance with these req

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2. Quarterly safety audits will be conducted by the Safety Committee.

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3. Violations may result in disciplinary action up to and including termination.

7. MAINTENANCE AND UPDATES

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1. This document shall be reviewed annually and updated as necessary.

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2. Changes must be approved by the Chief Safety Officer and documented in

8. DISCLAIMER

The safety requirements outlined in this document represent minimum standards.

Additional safety measures may be required based on specific operational conditions or risk assessments. This document does not supersede applicable federal, state, or local safety regulations.

9. AUTHORIZATION

Approved by:

Dr. Sarah Chen

CEO, NaviFloor Robotics, Inc.

Richard Torres

COO, NaviFloor Robotics, Inc.

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Elena Martinez

Chief Safety Officer

Date: December 15, 2023

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