

ROBOT PROGRAMMING STATION GUIDELINES

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NaviFloor Robotics, Inc.

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1. PURPOSE AND SCOPE

1. These Robot Programming Station Guidelines ("Guidelines") establish

2. These Guidelines apply to all employees, contractors, and authorized personnel.

2. DEFINITIONS

1. "Programming Station" means any designated workspace equipped with necessary tools and equipment for programming.
2. "Qualified Personnel" refers to individuals who have completed the required training and certification.
3. "Safety Zone" means the designated area surrounding a Programming Station where unauthorized personnel are prohibited.

3. STATION SETUP AND CONFIGURATION

1. Physical Requirements
 - a) Minimum clear floor space of 25' x 25'
 - b) Non-reflective, level surface meeting ISO 14644-1 cleanliness standards

- c) Dedicated 208V 3-phase power supply with emergency cutoff
- d) Minimum ceiling height of 12 feet
- e) Environmental controls maintaining 68-75 F and 45-55% humidity

2. Safety Equipment

- a) Emergency stop buttons at all four corners
- b) Light curtains with redundant safety circuits
- c) Warning beacons indicating active programming status
- d) Physical barriers preventing unauthorized entry
- e) Video monitoring system with 90-day retention

4. OPERATIONAL PROCEDURES

1. Pre-Programming Checklist

- a) Verify station calibration status
- b) Confirm safety system functionality
- c) Check environmental parameters
- d) Clear Safety Zone of unauthorized personnel
- e) Document robot serial number and configuration

2. Programming Protocol

- a) Initialize NaviCore(TM) interface in diagnostic mode
- b) Verify robot firmware compatibility
- c) Load approved programming templates
- d) Execute changes in simulation environment first
- e) Maintain continuous monitoring during live testing

3. Testing Requirements

- a) Conduct full range-of-motion verification
- b) Test all safety features and fail-safes
- c) Validate terrain mapping accuracy
- d) Perform collision avoidance scenarios
- e) Document all test results in NaviLog(TM) system

5. SAFETY PROTOCOLS

1. Personnel Requirements

- a) Minimum two Qualified Personnel present during programming
- b) Valid certification badges must be displayed
- c) Appropriate PPE must be worn at all times
- d) No loose clothing or jewelry permitted

2. Emergency Procedures

- a) Immediate activation of E-stop if anomalies detected
- b) Clear evacuation routes must be maintained
- c) Incident reporting within 30 minutes to Safety Officer
- d) Post-incident analysis and documentation required

6. QUALITY CONTROL

1. Documentation Requirements

- a) Programming changes logged in NaviTrack(TM)
- b) Test results archived for 7 years
- c) Calibration records maintained
- d) Safety inspection logs updated daily

2. Audit Procedures

- a) Monthly internal safety audits
- b) Quarterly programming quality reviews
- c) Annual third-party certification
- d) Random compliance checks by Quality Control

7. COMPLIANCE AND ENFORCEMENT

- 1. These Guidelines are mandatory and violation may result in immediate termination.
- 2. The Company reserves the right to modify these Guidelines at any time.

8. APPROVAL AND REVISION

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Approved by:

Dr. Elena Kovacs

Chief Research Officer

NaviFloor Robotics, Inc.

Richard Torres

Chief Operating Officer

NaviFloor Robotics, Inc.

