WORKPLACE SAFETY PROTOCOL - ROBOT TESTING AREAS

WORKPLACE SAFETY PROTOCOL - ROBOT

NaviFloor Robotics, Inc.

Effective Date: January 15, 2024

Document Version: 2.4

Policy Number: SAF-2024-RT-001

1. PURPOSE AND SCOPE

1. This Workplace Safety Protocol ("Protocol") establishes mandatory safety

1 - 2. This Protocol applies to all employees, contractors, visitors, and third-part
2. DEFINITIONS
-
1. "Robot Testing Area" or "RTA": Any designated space within Company f
2. "Safety Zone": Demarcated areas within RTAs indicated by yellow and bl
- 3. "Emergency Stop System" or "E-Stop": The comprehensive emergency sh
3. GENERAL SAFETY REQUIREMENTS

- 2 -

- 1. Access Authorization
- a) Only personnel with Level 2 or higher safety clearance may enter RTAs
- b) All entrants must complete the Company's Robot Safety Training Program (RSTP-101)
- c) Visitors must be accompanied by authorized personnel at all times

_

- 2. Personal Protective Equipment (PPE)
- a) ANSI Z87.1-compliant safety glasses
- b) Steel-toed safety boots meeting ASTM F2413-18 standards
- c) High-visibility vests meeting ANSI/ISEA 107-2020 Type R Class 2 require
- d) Emergency transponder badges with integrated panic button

4. OPÉRATIONAL PROCEDURES

-

- 1. Pre-Testing Requirements
- a) Complete safety checklist (Form SAF-RT-001)
- b) Verify E-Stop system functionality
- c) Confirm all sensors and safety barriers are operational
- d) Document robot configuration parameters

_

- 2. Testing Zone Setup
- a) Establish minimum 2-meter safety perimeter
- b) Verify visibility of all warning signage
- c) Confirm proper functioning of overhead warning lights

d) Test_all_communication systems

_

- 3. Active Testing Protocols
- a) Maintain minimum two-person operation team
- b) Continuous monitoring of robot telemetry
- c) Real-time logging of all test parameters
- d) Regular system status announcements

5. EMERGENCY PROCEDURES

- 1. Emergency Shutdown Sequence
- a) Activate nearest E-Stop
- b) Clear all personnel from testing zone

- c) Notify Floor Safety Supervisor
- d) Document incident details

_

- 2. Accident Response
- a) Render immediate assistance as needed
- b) Contact emergency services if required
- c) Secure affected area
- d) Preserve all data logs and system states

6. SPECIFIC HAZARD CONTROLS

- 1. Motion Hazards
- a) Maximum robot speed limited to 2.0 meters per second

- b) Automatic speed reduction when humans detected within 3 meters
- c) Mandatory use of motion tracking beacons

_

- 2. Electrical Hazards
- a) All charging stations must have GFCI protection
- b) Monthly inspection of power systems
- c) Proper lockout/tagout procedures

7. COMPLIANCE AND ENFORCEMENT

_

- 1. Regular Audits
- a) Weekly safety inspections
- b) Monthly compliance reviews

c) Quartorly third-party assessments

_

- 2. Violations
- a) Immediate suspension of testing activities
- b) Mandatory incident review
- c) Potential disciplinary action

8. DOCUMENTATION REQUIREMENTS

- 1. Required Records
- a) Daily testing logs
- b) Incident reports
- c) Training certifications

d) Maintenance records

_

- 2. Record Retention
- a) All safety records maintained for minimum 3 years
- b) Electronic backup of all documentation
- c) Quarterly audit trails

9. PROTOCOL UPDATES AND REVIEW

- 1. This Protocol shall be reviewed and updated annually or upon:
- a) Significant changes to robot systems
- b) New safety regulations
- c) Incident investigations

d)	Technolo	gy un	grades
ω,	I CCILIDATO	5, SP	Sidde

10. AUTHORIZATION

This Protocol is authorized and approved by:

Dr. Sarah Chen

CEO & Co-founder

NaviFloor Robotics, Inc.

Richard Torres

Chief Operating Officer

NaviFloor Robotics, Inc.

Date: Japuary 15, 2024

End of Document

