



iSafetyBench: A video-language benchmark for safety in industrial environment

Supplementary Material

In the supplementary material, we provide the detail list of actions for both the normal and hazard dataset.

A. List of Normal Actions

Material Handling & Movement

1. pouring something
2. holding object
3. moving object
4. placing object
5. stacking objects
6. pulling object
7. pushing object
8. rotating object
9. folding fabric
10. tying fabric
11. stamping object
12. loading materials
13. unloading materials
14. picking object
15. rotating wood planks
16. tearing something
17. poking object
18. arranging objects
19. rolling object
20. wrapping chain
21. attaching label

Assembly & Production Tasks

22. assembling electronic components
23. screwing parts
24. adjusting wiring
25. inserting screws
26. cutting with machine
27. bending metal sheet
28. cleaning object
29. sealing boxes
30. scanning label
31. sewing
32. connecting pipes
33. testing product functionality
34. heating metal
35. opening panel cover
36. closing panel cover
37. digging

Machinery Operation & Maintenance

38. operating machine
39. pressing button
40. adjusting fastener with wrench
41. hammering component
42. using jack to lift vehicle
43. adjusting machine components
44. detaching part from machinery

Vehicle Interaction & Site Logistics

45. driving vehicle
46. parking vehicle
47. backing vehicle
48. opening vehicle door
49. closing vehicle door
50. entering vehicle
51. exiting vehicle
52. loading to truck
53. unloading from truck
54. attaching chain to vehicle
55. changing tire
56. operating industrial vehicle

Inspection & Quality Control

57. inspecting equipment or text
58. looking at screen
59. measuring with tape
60. writing notes
61. taking a photo

Communication & Human Interaction

62. talking
63. pointing at something
64. signaling to someone
65. posing for camera
66. calling for help
67. assisting injured coworker
68. arguing
69. arresting person
70. knocking on window
71. shaking hands

Navigation & Personal Movement

72. adjusting clothing
73. standing
74. walking
75. running
76. entering doorway

77. exiting doorway
78. crouching
79. bending down
80. balancing on beam
81. dancing
82. showing discomfort
83. jumping
84. rubbing eyes
85. rubbing head
86. yawning
87. checking self
88. sitting
89. falling down
90. eating
91. getting up
92. putting on PPE
93. taking off PPE
94. crawling

Surveillance & Observation

95. monitoring onboard camera
96. appearing on security feed
97. searching area with flashlight
98. watching process

B. List of Dangerous/Hazard Actions

Machinery & Equipment Operation Errors

1. operating forklift
2. forklift blade detaching
3. operating heavy equipment dangerously
4. operating hydraulic press
5. operating rolling machine
6. rotating machine lever
7. adjusting machine while running
8. robotic arm misoperation
9. walking on moving conveyor
10. misusing lift platform
11. machine part flying off
12. improper use of flamethrower

Entanglement & Compression Hazards

13. shirt caught in machine
14. hair caught in appliance
15. foot stuck in conveyor
16. body pulled into machine
17. trapped between closing machine sides
18. crushed under overturned vehicle

Structural Failures, Falling Objects & Collapses

19. structural collapse
20. falling load
21. heavy object slipping
22. break under load

23. warehouse shelves toppling
24. crane imbalance with suspended load
25. glass shattering on impact
26. unloading truck load fall

Fire, Explosion & Thermal Hazards

27. fire incident
28. pressurized vessel explosion
29. machine explosion
30. gas burst

Manual Handling & Lifting Incidents

31. lifting heavy load
32. pushing heavy load
33. pulling heavy load
34. carrying heavy load
35. carrying object and slipping

Vehicle & Traffic-Related Incidents

36. driving car
37. vehicle crash into building or stationary object
38. vehicle losing control
39. collision between vehicles
40. driver thrown during crash
41. car hood malfunction or improper interaction
42. person dragged by vehicle
43. vehicle falling off edge

Rescue, Situational Awareness & Human Error

44. lifting object off person
45. extinguishing fire
46. rescue effort
47. helping person down from height
48. searching debris for victims
49. signalling others about hazard
50. filming incident
51. watching incident passively
52. escaping from danger

Environmental & Workplace Hazards

53. equipment emitting sparks
54. overstacked shelves
55. cluttered workspace
56. flooded floor
57. platform failure

Slips, Trips, Falls & Non-Machine Events

58. person falling down
59. tree falling nearby
60. hanging from something after slip

Security Incidents & Intentional Misconduct

61. moving in a suspicious manner
62. physical altercation or fighting

- 63. vandalism or intentional property damage
- 64. intention of theft
- 65. police arrest
- 66. police search
- 67. firearm discharge