

Use this table to identify potential injury & illness cause paths.

Surface Factors				
Actions	1. Procedures PROCEDURES	2. Tools/Equip./Vehicles	3. Protective Systems	4. Awareness
	1.1 Taking shortcuts	2.1 Improper use of	3.1 Failure to use PPE	4.1 Lack of Awareness
	1.2 Lack of Authorization	2.2 Inappropriate for Task	3.2 Improper use of PPE	4.2 Distractions
	1.3 Violation of procedure	2.3 Using Broken/Defective/Incomplete	3.3 Failure to use Protective Systems	4.3 Change in process
	1.4 Using wrong procedure	2.4 Exceeding Limitations of	3.4 Removal of Protective Systems (guards)	4.4 Routine/Repetitive Activity
	1.5 Improper application of procedure	2.5 Unauthorized Modification of	3.5 Using Inadequate Protective Systems	4.5 Body Position
	1.6 Other	2.6 Other	3.6 Other	4.6 Other
Conditions	5. Exposure To	6. Tools/Equip./Vehicles	7. Protective Systems	8. Workplace Layout
	5.1 Previously Unidentified Hazards	6.1 Broken/Defective	7.1 Inadequate Guards/Protection	8.1 Congested or Limited Space
	5.2 General Environment (weather, etc.)	6.2 Inadequate	7.2 Defective Guards/Protection	8.2 Illumination/Ventilation/Sanitation
	5.3 Acts of Violence	6.3 Incorrect/Wrong	7.3 Inadequate Warning Systems	8.3 Organization/Housekeeping
	5.4 3 rd Party Activity/Condition	6.4 Beyond Usable Service Life	7.4 Protective Devices not available	8.4 New/Unfamiliar work area
	5.5 Significant External Event	6.5 Unauthorized Modification of	7.5 Exceeding Design Limitations	8.5 Access/Egress Restrictions
	5.6 Other	6.6 Other	7.6 Other	8.6 Other
Contributing Factors				
Human	9. Physical Capabilities	10. Physical Condition	11. Behavior	12. Skill Level
	9.1 Physical Deficiency	10.1 Previous Injury/Illness	11.1 Aggressive	12.1 Lack of Skill
	9.2 Sensory Deficiency	10.2 Anxiety/Stress	11.2 Overconfident	12.2 New Skill
	9.3 Systemic Deficiency	10.3 Fatigue/tiredness	11.3 Negligent	12.3 Infrequent Skill
	9.4 Exceeding Personal Limitations	10.4 Substance Abuse	11.4 Apprehensive	12.4 Repetitive Skill
	9.5 Other	10.5 Other	11.5 Other	12.5 Other
System	13. Management	14. Training	15. Employee Selection	16. Schedule/Planning
	13.1 Commitment	14.1 Need not recognized	15.1 Incomplete Background Check	16.1 Time Pressure
	13.2 Chain of Command	14.2 Not Provided	15.2 Not qualified/Under qualified	16.2 Budget Pressure
	13.3 Leadership/Supervision	14.3 Inadequate	15.3 Unaddressed Historical Issues	16.3 Lack of Resources
	13.4 Failure to correct deficiencies	14.4 Negative Reinforcement	15.4 Substance Abuse	16.4 Accelerated Schedule
	13.5 Other	14.5 Other	15.5 Other	16.5 Other
	17. Purchasing	18. Maintenance	19. Policies/Procedures	20. Communication
	17.1 Wrong item/part	18.1 Lack of Maintenance	19.1 Lack of Policy	20.1 Communication Barriers
	17.2 Substituted item/part	18.2 Inadequate Maintenance	19.2 Inadequate Policy	20.2 Lack of Communication
	17.3 Shipping Delay	18.3 Exceeded Lifespan	19.3 Lack of Policy Enforcement	20.3 Conflicting Communications
17.4 Ordering Delay	18.4 Failure to Inspect	19.4 Changes to Policy	20.4 Communication method	
17.5 Other	18.5 Other	19.5 Other	20.5 Other	
Responsibility:		1. Employee	2. Management	3. Other

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