

SCAT Chart - Systematic Cause Analysis technique - SCAT Chart

DESCRIPTION OF ACCIDENT OR NEAR CONTACT									
EVALUATION OF LOSS POTENTIAL IF NOT CONTROLLED									
Loss Severity Potential		Probability of Occurrence		Frequency of Exposure					
O Major (a)	O Serious (B)	O Minor (C)	O High (A)	O Moderate (B)	O Rare (C)	O Extensive (A)	O Moderate (B)	O Low (C)	
Type of Contact or Near Contact with Energy or Substance									
1 Struck against (Running or Bumping into) (See I.C's: 1,2,4,5,12,14,16,17,18,19,26)		3 Fall To Lower Level (See I.C's:3,5,6,7,11,12,13,14,15,16,17,22)		5 Caught In (Pinch and Nip Points) (see I.C's: 5,6,11,13,14,15,16,18)		7 Caught Between Or Under (Crushed Or amputated) (See I.C's: 1,2,5,6,9,11,12,13,14,15,16,22,28)		20,21,23,24,25,27,28	
2 Struck by (Hit by Moving Object) (See I.C's: 1,2,4,5,6,9,10,12,13,14,15,16,20,26)		4 Fall On Same Level (Slip and Fall, Trip Over) See I.C's: 4,9,13,14,15,16,19,22,26)		6 Caught On (Snagged, Hung) (See I.C's: 5,6,11,12,13,14,15,16,18)		8 Contact with (Electricity,Heat,Cold,Radiation,Caustics, Toxics, Noise)(See I.C's:5,6,7,11,12,13,14,15,16,17,18,		9 Overstress,Overexertion,Overhead (See I.C's:8,9,10,11,13,14,15)	
(IC's) Immediate/Direct Causes (IC's)									
SUBSTANDARD/UNSAFE ACTS		7 Failing to Use PPE Properly(See B.C's: 2,3,4,5,7,8 10,12,13,15)		13 Horseplay (See B.C's:2,3,4,5,7,8,13,15)		20 Inadequate warning System (See B.C's:8,9,10,11,12,13)		26 Inadequate or Excess Illumination (See B.C's:8,9,10,11,12,13)	
1 Operating Equipment Without Authority (See B.C's 2,4,5,7,8,12,13,15)		8 Improper Loading (See B.C's:1,2,3,4,5,6,7,8,9,12 13,15)		14 Under Influence of Alcohol and/or Other Drugs(See B.C's:2,3,4,5,7,8,13,15)		21 Fire & explosion Hazards (See B.C's:5,6,7,8,9,10,11,12, 13,15)		27 Inadequate Ventilation (see B.C's) 8,9,10,11,12)	
2 Failure to Warm (See B.C's: 1,2,3,4,5,6,7,8,9,12, 13,15)		9 Improper Placement (See B.C's: 1,2,3,4,5,6,7,8,9, 12,13,15)		15 Using Equipment Improperly (See B.C's: 1,2,3,4,5,6,7,8,9,10,12,13,15)		22 Poor Housekeeping/Disorder (See B.C's: 5,6,7,8,9,10,11 12,13,15)		28 Hazardous Environmetal Conditions (See B.C's:8,9,10,11,12,13)	
3 Failure to Secure (See B.C's:2,3,4,5,6,7,8,9,12 13,15)		10 Improper Lifting (See B.C's:1,2,3,4,5,6,7,8,9,12,13 15)		16 Inadequate Guards or Barriers(See B.C's 5,7,8,9,10,11,12,13,15)		23 Noise Exposure (See B.C's: 5,6,7,8,9,10,11,12,13,14)			
4 Operating at Improper Speed (See B.C's:2,3,4 5,6,7,8,)		11 Improper Position for Task (See B.C's: 1,2,3,4,5,6 7,8,9,12,13,15)		17 Inadequate or Improper Protective Equipment (See B.C's: 5,7,8,9,10,12,13)		24 Radiation Exposure (See B.C's: 5,6,7,8,9,10,11,12,13,14)			
5 Making Safety Devices Inoperative (See B.C's 2,3,4,5,6,7,8,9,12,13,15)		12 Servicing Equipment in Operation (See B.C's:2,3,4,5 6,7,8,9,12,13,15)		18 Defective Tools, Equipment or Materials(See B.C's: 8,9,10,11,12,13,14,15)		25 Temperature Extremes (See B.C's: 1,2,3,8,9,11,12			
6 Using Defective Equipment (See B.C's: 2,3,4,5,6 7,8,9,10,11,12,13,14,15)				19 Congestion or Restricted Action (See B.C's: 8,9,13)					
(BC's) Basic / Underlying Causes (BC's)									
PERSONAL FACTORS									
1 Inadequate Physical/Physiological Capability (See CAN: 6,9,12,15,18)		4 Mental or Psychological Stress (See CAN: 1,4,5,6,10,11,12,15,16,18,20)		7.11. Improper supervisory example		10 Inadequate Purchasing (See CAN: 1,3,4,6,9,12,13,14,15,19)		13 Inadequate Work Standards (See CAN: 1,2,3,4,5,6,7,8,9,10,11, 12,13,14,15,16,19)	
1.1 Inappropriate height,weight,size,strength reach, etc.		4.1 Emotional overload		7.12. Inadequate performance feedback		10.1 Inadequate specifications on requisitions		13.1 Inadequate development of standards for;	
1.2 Restricted range of body movement		4.2 Fatigue due to mental task load or speed		7.13. Inadequate reinforcement of proper behavior		10.2 Inadequate research on materials/equipment		13.1.1. Inventory and evaluation of exposures and needs	
1.3 Limited ability to sustain body positions		4.3 Extreme judgment/decision demands		7.14. Improper production incentives		10.3 Inadequate specifications to vendors		13.1.2. Coordination pocess design	
1.4 Substance sensitivities or allergies		4.4 Routine, monotony, demand for uneventful vigilance		JOB FACTORS		10.4 Inadequate mode or route of shipment		13.1.3. Employee involment	
1.5 Sensitivities to sensory extremes (temperature, sound, etc)		4.5 Extreme concentration/perception demands		8 Inadequate Leadership and/or Supervision		10.5 Inadequate receiving inspection and acceptance		13.1.4. Procedures/practices/rules	
1.6 Vision deficiency		4.6 Meaningless or degrading activities		8.1 Unclear or conflicting reporting relationships		10.6 Inadequate communication of safety and health data		13.2 Inadequate communication of standards for:	
1.7 Hearing deficiency		4.7 Confusing directions/demands		8.2 Unclear or conflicting assignment of responsibility		10.7 Improper handling of materials		13.2.1. Publication	
1.8 Other sensory deficiency (touch, taste, smell, balance)		4.8 Conflicting demands/directions		8.3 Improper or insufficient delegation		10.8 Improper storage of materials		13.2.2. Distribution	
1.9 Respiratory incapability		4.9 Preoccupation with problems		8.4 Giving inadequate policy,procedure, practices or guidelines		10.9 Improper transporting of materials		13.2.3. Translation to appropriate languages	
1.10. Other permanent physical capabilities		4.10. Frustration		8.5 Giving objectives, goals, or standard that conflict		10.10. Inadequate identification of hazardous items		13.2.4. Training	
1.11. Temporary disabilities		4.11. mental illness		8.6 Inadequate work planning or programming		10.11 Improper salvage and/or waste disposal		13.2.5. Reinforcing with signs, color codes and jobs aids	
2 Inadequate mental/Psychological Capability (See CAN: 6,9,10,15,18)		5 Lack of Knowledge (See CAN:2,4,5,6,7,8,9,10,11,12,13,15,16,18,20)		8.7 Inadequate instructions, orientation and or train		10.12 Inadequate contractor selection		13.3 Inadequate maintenance of standards for:	
2.1 Fears and probias		5.1 Lack of experience		8.8 Providing inadequate reference documents directives and guidance publications		11 Inadequate Maintenance (See CAN: 1,3,4,5,9,10,13,15,19)		13.3.1. Tracking of work flow	
2.2 Emotional disturbance		5.2 Inadequate orientation		8.9 Inadequate identification and evaluation of loss exposure		11.1 Inadequate preventive		13.3.2. Updating	
2.3 Mental illness		5.3 Inadequate initial training		8.10. Lack of supervisory / management job knowledge		11.1.1. Assessment of needs		13.3.3. Monitoring use of procedure or practices/rules	
2.4 Intelligence level		5.4 Inadequate update training		8.11 Inadequate matching of individual qualifications and job / task requirement		11.1.2. Lubrication and servicing		13.4 Inadequate monitoring of compliance	
2.5 Inability to comprehend		5.5 Misunderstood directions		8.12 Inadequate performance measurement and evaluation		11.1.3. Adjustment/assembly			
2.6 Poor judgment		6 Lack of Skill (See CAN: 2,4,5,6,7,9,10,13,15,18)		8.13 Inadequate or incorrect performance feedback		11.1.4. Cleaning or resurfacing		14 Exercise Wear and Tear (See CAN: 3,4,6,9,10,13,14,15)	
2.7 Poor coordination		6.1 Inadequate initial instruction		9 Inadequate Engineering (See CAN: 1,2,3,4,9,12,13,14)		11.2.1. Communication of			