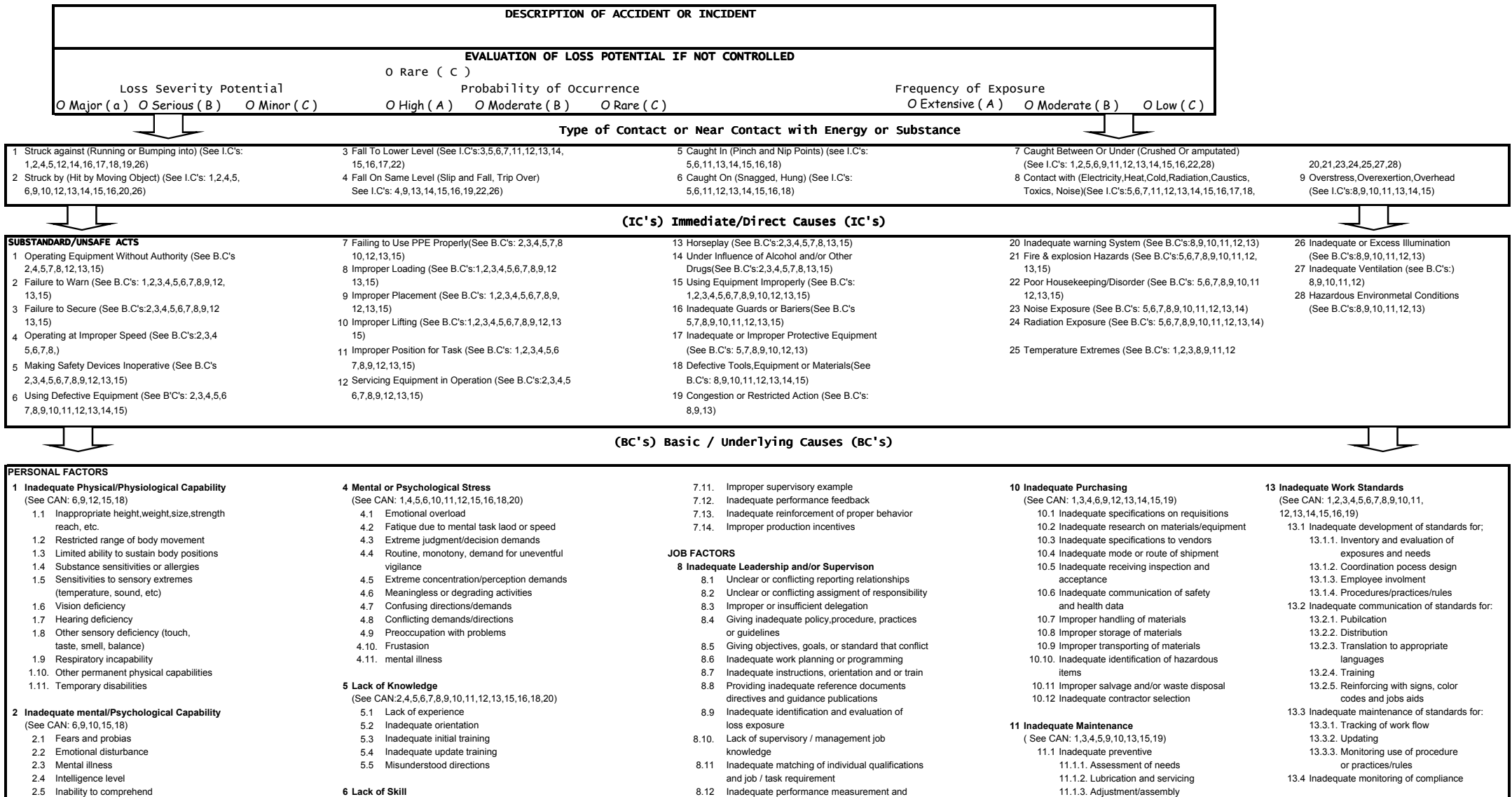


SCAT Chart - Systematic Cause Analysis technique - SCAT Chart



- 2.6 Poor judgment
- 2.7 Poor coordination
- 2.8 Slow reaction time
- 2.9 Low mechanical aptitude
- 2.10. Low learning aptitude
- 2.11. Memory failure

- (See CAN: 2,4,5,6,7,9,10,13,15,18)
- 6.1 Inadequate initial instruction
 - 6.2 Inadequate practice
 - 6.3 Infrequent performance
 - 6.4 Lack of Coaching
 - 6.5 Inadequate review instruction

3 Physical or Physiological Stress

(See CAN: 4,6,9,11,12,13,15,18,20)

- 3.1 Injury illness
- 3.2 Fatigue due to task load or duration
- 3.3 Fatigue due to lack of rest
- 3.4 Fatigue due to sensory overload
- 3.5 Exposure to health hazards
- 3.6 Exposure to temperature extremes
- 3.7 Oxygen deficiency
- 3.8 Atmospheric pressure variation
- 3.9 Blood sugar insufficiency
- 3.10. Drugs

7 Improper Motivation

(See CAN: 1,2,4,5,6,8,10,11,13,15,17,18)

- 7.1 Improper performance is rewarding
- 7.2 Improper performance is punishing
- 7.3 Lack of incentives
- 7.4 excessive frustration
- 7.5 Inappropriate aggression
- 7.6 Improper attempt to save time or effort
- 7.7 Improper attempt to avoid discomfort
- 7.8 Improper attempt to gain attention
- 7.9 Inadequate discipline
- 7.10. Inappropriate peer pressure

- evaluation
- 8.13 Inadequate or incorrect performance feedback

9 Inadequate Engineering

(See CAN: 1,2,3,4,9,12,13,14)

- 9.1 Inadequate assessment of loss exposures
- 9.2 Inadequate consideration of human factors or ergonomic
- 9.3 Inadequate standards, specifications and or design criteria
- 9.4 Inadequate monitoring of construction
- 9.5 Inadequate assessment of operational readiness
- 9.6 Inadequate or improper controls
- 9.7 Improper monitoring of initial operation
- 9.8 Inadequate evaluation of changes

- 11.1.4. Cleaning or resurfacing
- 11.2 Inadequate repairative
- 11.2.1. Communication of needs
- 11.2.2. Scheduling of work
- 11.2.3. Examination of units
- 11.2.3. Part of substitution

12 Inadequate Tools and equipment

(See CAN: 1,3,4,6,7,9,11,12,13,14,15,19)

- 12.1 Inadequate assessment of needs and risks
- 12.2 Inadequate human factors/ergonomics considerations
- 12.3 Inadequate standards or specifications
- 12.4 Inadequate availability
- 12.5 Inadequate adjustment/maintenance
- 12.6 Inadequate salvage and reclamation
- 12.7 Inadequate removal and replacement of suitable items

14 Exercise Wear and Tear

(See CAN: 3,4,6,9,10,13,14,15)

- 14.1 Inadequate planning of use
- 14.2 Improper extension of service life
- 14.3 Inadequate inspection and/or monitor
- 14.4 Improper loading or rate of use
- 14.5 Inadequate maintenance
- 14.6 Use by unqualified or untrained people
- 14.7 Use for wrong purpose

15 Abuse or Misuse

- 15.1 Improper conduct that is condoned
 - 15.1.1. Intentional
 - 15.1.2. Unintentional
- 15.2 Improper conduct that is not condoned
 - 15.2.1. Intentional
 - 15.2.2. Unintentional

(CAN) Control Action Needs (CAN)

1 LEADERSHIP AND ADMINISTRATION

Program Present (P), Standards (S), Compliance (C)

P	S	C

- 1.1 General Policy
- 1.2 Program Coordinator
- 1.3 Senior and Middle Management Participation
- 1.4 Management Performance Standards
- 1.5 Management Participation
- 1.6 Presentation at Management Meeting
- 1.7 Management Reference Manual
- 1.8 Management Audits Conducted
- 1.9 Individual Responsibility for Safety and health /Loss Control Objectives
- 1.10. Establishment of Annual Safety and Health /Loss Control Objectives
- 1.11 Joint safety & Health Committees and/or Safety and Health Representatives
- 1.12 Refusal to Work on Grounds of safety & Health Hazard (s) procedure
- 1.13 reference Library

5 ACCIDENT AND INCIDENT INVESTIGATION

Program Present (P), Standards (S), Compliance (C)

P	S	C

- 5.1 Accident/Incident Investigation Procedure
- 5.2 Scope of Investigations Established
- 5.3 Remedial Follow-up and Action
- 5.4 Major Accident Announcement Used
- 5.5 High Potential Incident Information Used
- 5.6 Operating management Participation
- 5.7 Incident Reporting and Investigation
- 5.8 Accident/Incident Report Maintenance
- 5.9 Regular Program Monitoring

6 TASK OBSERVATION

Program Present (P), Standards (S), Compliance (C)

P	S	C

- 6.1 Management Directive on Importance
- 6.2 Complete Task Observation Program
- 6.3 Level of Complete Task Observations
- 6.4 Partial Task Observation Program
- 6.5 Task Observation Report Analysis
- 6.6 Regular Program Monitoring

7 EMERGENCY PREPAREDNESS

Program Present (P), Standards (S), Compliance (C)

P	S	C

- 7.1 Coordinator Appointed
- 7.2 emergency Plan in Writing
- 7.3 Supervisory Training in First Aid
- 7.4 Employee Training in First Aid (10%)
- 7.5 Emergency Lighting and Power Adequate
- 7.6 Master Controls Color Coded and Labeled
- 7.7 Protective and Rescue Equipment
- 7.8 Emergency Team Training and Drills
- 7.9 Qualified First Aid Attendants
- 7.10. Organized Outside Help and Mutual Aid
- 7.11 Protection of Vital Records
- 7.12 Post Event Planning
- 7.13 Emergency Communication Provided
- 7.14 Public Safety Communications Planned

8 ORGANIZATIONAL RULES

P	S	C

10 EMPLOYEE TRAINING

Program Present (P), Standards (S), Compliance (C)

P	S	C

- 10.1 Training Needs Analysis
- 10.2 Employee Training Program
- 10.3 Training Program evaluation

11 PERSONAL PROTECTIVE EQUIPMENT

Program Present (P), Standards (S), Compliance (C)

P	S	C

- 11.1 Personal Protective Equipment Standards
- 11.2 Personal Protective Equipment Recordkeeping
- 11.3 Enforcement of Standards
- 11.4 Regular Program Monitoring

12 HEALTH CONTROL

Program Present (P), Standards (S), Compliance (C)

P	S	C

- 12.1 Health Hazard Identification
- 12.2 Health hazard Control
- 12.3 Information/Training/education
- 12.4 Industrial Hygiene Monitoring
- 12.5 Health Maintenance program
- 12.6 Professional Medical Assistance
- 12.7 Health Communications to Worker
- 12.8 Record Maintenance

13 PROGRAM EVALUATION SYSTEM

Program Present (P), Standards (S), Compliance (C)

P	S	C

- 13.1 Comprehensive Audit of Compliance with Program standards
- 13.2 Comprehensive Audit of Compliance with Physical Conditions standards
- 13.3 Comprehensive Audit of Compliance with Fire Prevention and Control Standards
- 13.4 Comprehensive Audit of Compliance with Occupational Health Standards
- 13.5 Program Evaluation Systems Record Keeping

14 ENGINEERING CONTROL

Program Present (P), Standards (S), Compliance (C)

P	S	C

- 14.1 Design Engineering Safety and Health Considerations at conception and Design

16 GROUP MEETING

Program Present (P), Standards (S), Compliance (C)

P	S	C

- 16.1 Group Meeting Held
- 16.2 Record of Subject, Visual Aid, Attendance, Problems Discussed
- 16.3 Middle and Top Management Involvement
- 16.4 Regular Program Monitoring

17. GENERAL PROMOTION

Program Present (P), Standards (S), Compliance (C)

P	S	C

- 17.1 safety Bulletin Board Program
- 17.2 Use of program statistics and facts
- 17.3 Critical Topic Promotion
- 17.4 Use of Awards or Recognition
- 17.5 Program Information Publication
- 17.6 Group Performance Promotion
- 17.7 Housekeeping Promotion
- 17.8 Records of Program Promotion Activities

18 HIRING AND PLACEMENT

Program Present (P), Standards (S), Compliance (C)

P	S	C

- 18.1 Physical Capability Analyses
- 18.2 Pre-Employment Physical examination
- 18.3 General Orientation/Induction Program
- 18.4 Pre-Employment/Pre-Placement Qualification Checks

19 PURCHASING CONTROLS

Program Present (P), Standards (S), Compliance (C)

P	S	C

- 19.1 Purchasing Includes safety and health in Specifications and Procurement
- 19.2 Selection and Control of Contractor

20 OFF-THE-JOB SAFETY

Program Present (P), Standards (S), Compliance (C)

P	S	C

- 20.1 Reporting System Established and statistics Analyzed
- 20.2 Off-the-job safety Information Communicated

- Equipment Inspections
- 3.7 Alternative Conditions Reporting System
- 3.8 Planned general Inspection Report Maintenance
- 3.9 regular Program Monitoring

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4 TASK ANALYSIS AND PROCEDURES

Program Present (P), Standards (S), Compliance (C)

P	S	C

- 4.1 Management Directive on Importance
- 4.2 Critical Task Inventory
- 4.3 Task Analysis and Task Procedure Objectives
- 4.4 Task Analysis and Procedures for Critical Task Completed and regularly Updated
- 4.5 Safety and Health Hazards in Critical task Analyses and procedures
- 4.6 Regular program Monitoring

Program Present (P), Standards (S), Compliance (C)

- 8.1 General safety and Health Rules
- 8.2 Specialized Work Rules
- 8.3 Work Permit and specialized procedures Systems
- 8.4 Rule education and Review Program
- 8.5 Rule Compliance Effort
- 8.6 Use of Educational Signs and Color Codes
- 8.7 Regular program Monitoring

P	S	C

9 ACCIDENT/INCIDENT ANALYSIS

Program Present (P), Standards (S), Compliance (C)

- 9.1 performance statistics Computed and used
- 9.2 Occupational Injury and Illness Analysis
- 9.3 Property and Equipment Damage Identification and analysis
- 9.4 Problem Solving project Teams

P	S	C

- 14.2 process Engineering Safety and Health Consideration at Conception and Design
- 14.3 Regular Program Monitoring

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15 PERSONAL COMMUNICATIONS

Program Present (P), Standards (S), Compliance (C)

- 15.1 Training in Personal Communication Technique
- 15.2 Job Orientation/Induction New/Transferred People
- 15.3 Proper Task Instruction Training and Use
- 15.4 Planned Personal Contact Program
- 15.5 Regular Program Monitoring

P	S	C

LEGEND

- P** Do we have program standards for this activity?
- S** Are existing standards adequate?
- C** Is there full compliance with standards?