

Safety Systems and Sub-Systems Worksheet

Safety Systems	Design/Engineering	Mitigation Devices	Mechanical Integrity	Warning Devices	Procedures	Training	Personal Protective Factors
Safety Sub-System <p>Note: There may be additional sub-systems that are not included in this chart. Also in the workplace many subsystems are interrelated. It may not always be clear that an issue belongs to one subsystem rather than another.</p>	Job Pre-Planning Resource Allocation Design and Engineering of Work Area, Equipment, Procedures, and Software Technology for Remote Work Chemical Selection and Substitution Management of Change Standards, Codes, and Policies such as: OSHA Standards, Fire or Electrical Codes, NJ Executive Orders NJ Healthcare Specific - Violence Prevention and Safe Patient Handling Regulations Work Organization Staffing, Scheduling, and Workload, Remote Work Skills and Qualifications Management of Personnel Change Joint Committees Communications	Shutdown and Isolation Devices Relief and Check Valves Ventilation Systems Machine Guarding Enclosures, Fencing, Dikes and Containment Seat Belts and Air Bags Fire and Chemical Suppression Devices Back-up Generator System and Emergency Outlets Physical Barriers Automatic Door Openers	Inspection and Testing Preventive Maintenance Parts Quality Control Turnarounds and Overhauls Equipment Failures	Monitors Emergency Notification Systems Process Alarms Facility Alarms Community Alarms Life Support Systems Patient Monitors Smoke or Carbon Monoxide Detectors Back-up Alarms on Vehicles Caution Signs, Cones, or Movable Barriers	Up-to-date Operating Manuals and Procedures Hazard Assessment and Analysis Maintenance Procedures Cleaning Protocols Infection Control Procedures Pre-Startup Safety Review Permit Programs Communications Healthcare – Patient Assessments and Shift Change Team Huddles Buddy System	Process Safety Information Violence Prevention Training Emergency Preparedness and Response Training HAZCOM Training Refresher Training Information Resources Investigations and Lessons Learned Recordkeeping OSHA 300 Log Hazard Identification	Personal Protective Equipment Respirators, Gloves, Eye and Hearing Protection Face Coverings Worker Participation and Decision-Making
Hierarchy of Controls	Elimination or Substitution	Engineering Controls	Administrative & Work Practice Controls	Administrative & Work Practice Controls	Administrative & Work Practice Controls	Administrative & Work Practice Controls	Personal Protective Equipment

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