Section: PS 818-F Indirect and Root Cause Reference Guide

Public Service Commission

The guide below is intended as a reference guide for determining the indirect and root causes of incidents.

Substandard Actions:	Substandard Conditions:	Substandard Vehicle,	Personal Factors:
Substandard Actions: > Client behavior > Improper lifting > Improper loading or placement > Inadequately secured > Inadequate warning > Misbehavior/horseplay > Making safety devices inoperable or removing safety devices > Not using PPE or using it improperly > Operating at improper speed > Operating equipment without training > Safe Operating Procedure/Guideline or Safety Policy not followed > Servicing equipment in operation > Unnecessary haste > Using defective equipment > Using equipment improperly	Substandard Conditions: > Congested or restricted area > Defective tools, equipment or materials > Dust, smoke > Fire and explosion hazards > Gases, fumes, vapor > Hazardous substances (WHMIS) > High/low temperature > Improper storage > Inadequate guards or barriers > Inadequate ventilation > Inadequate ventilation > Inadequate ventilation > Inadequate/excessive lighting > Infectious substances > Noise exposure > Poor housekeeping/disorder > Radiation exposure > Slippery, wet, icy > Weather	Substandard Vehicle, Machinery, Equipment and Tools, Material: > Improper or inadequate Personal Protective Equipment (PPE) > Inadequate fall protection > Inadequate guards or barriers > Inadequate maintenance > Inadequate tools or equipment > Not in good working condition > Not used according to operating instructions > Safety devices not operating > Wrong vehicle, machinery, equipment, tools or material used	Personal Factors: > Distractions > Fatigue > Improper motivation > Inadequate experience > Inadequate training > Medications/drugs/ alcohol > Physical limitations > Stress Job Factors: > Abuse or misuse > Inadequate oversight/direction > Inadequate safe operating procedures/guidelines > Inadequate tools or equipment > Inadequate work standards > Inadequate resources > Inadequate supervision > Wear and tear
2. ROOT CAUSES	MANAGEMENT CONTROLS	INCIDENT CAUSATION MC	DELS (FISHBONE or 5 WHYS)
 2. ROOT CAOSES System Design: > Inadequate hazard and risk identification process > Inadequate or lack of safe operating procedures, guidelines or safety policy > Lack of a training program System Implementation: > Allowing unsafe behaviours > Failure to report incident > Inadequate processes > Inadequate supervision > Insufficient supervisor training > Insufficient worker orientation > Insufficient worker training > Lack of a countability for safety infractions > Lack of communication plan > Lack of tool box/safety meetings > No action taken on recommended corrective actions > Safe operating procedures not enforced 	MANAGEMENT CONTROLS Emergency preparedness General promotion Health control Hiring and job placement Incident analysis Incident investigations Leadership and administration Management training Organizational rules Personal communications Planned inspections Personal Protective Equipment (PPE) Program evaluation systems/audits Safety/Toolbox meeting(s) Task analysis and procedures Task observation Worker orientation Worker training 	Ergonomics Procedures Nature of task Weather	Why? Why? Why? Tools Equipment Skills bility th