Government of Saskatchewan
Ministry of Parks, Culture and Sport

Risk Assessment Tool

RISK MATRIX

Likelihood	1	2	3	4	5
5	5	10	15	20	25
4	4	8	12	16	20
3	3	6	9	12	15
2	2	4	6	8	10
1	1	2	3	4	5

Consequences

Risk Rating
High
Medium
Low

Likelihood x Consequences = Risk Rating

Likelihood (Probability/Frequency)

5 - Definitely, 80 to 100% chance it will occur in most circumstances
4 - Likely, 60 to 80% chance it will occur in most circumstances
3 - Occasional, 40 to 60% chance it might occur at some point in time
2 - Seldom, 20 to 40% chance it could occur at some point in time
1 - Unlikely, less than 20% it could occur in exceptional circumstances

Consequences

5 - Catastrophic: fatality and/or facility/equipment loss
4 - Major: permanent disability, severe injuries and/or significant equipment damage
3 - Moderate: medical treatment and/or equipment damage
2 - Minor: first aid treatment and/or minor equipment damage
1 - Low: no injury and/or no equipment damage

Risk Rating

High - 12 to 25: Unacceptable risk. Report hazard to supervisor immediately, do not use this equipment or perform this task until risk is lowered to a tolerable or acceptable level.

Medium - 6 to 10: Tolerable risk. Will only be tolerated for the short-term and then only while further control measures to lower the risk are being planned and introduced, within a defined time period.

Low - 1 to 5: Acceptable risk. No further action is necessary other than to ensure that existing controls are maintained. Shall be reviewed periodically or after significant changes.

Safety Contols

Preventive and protective measures to control risk shall be determined and implemented according to the following hierarchy:

1. **Elimination** – ultimate measure, however, not all hazards can be eliminated
2. **Substitution** – of a process, chemical, material or equipment.
3. **Engineering** – made at concept stage of design or process application.
4. **Administrative** – supervision, practices & procedures, training and inspections.
5. **Personal Protective Equipment (PPE)** – last line of defense, should be used in conjunction with the first four controls