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| RISK MATRIX  |  |  |  |  | | --- | --- | --- | --- | | **Factor** | **Consequence** | **Exposure** | **Probability** | | 6 | **Catastrophe**: numerous fatalities; damage over $2 million; major disruption to activities | **Continuous:** Occurs many times daily. | **Almost Certain**: The most likely and expected result if the selected complete sequence of events takes place (up to 1 in 10 chance). | | 5 | **Disaster:** multiple fatalities; damage $1 million to $2 million | **Frequent:** Occurs daily. | **Quite Possible**: Not unusual (1 in 10 to 1 in 100 chance). | | 4 | **Very Serious:** fatality; damage $500,000 to $1 million | **Occasional:** Occurs weekly to monthly. | **Unusual but Possible**: Unusual but possible sequence or coincidence  (1 in 100 to 1 in 1,000 chance). | | 3 | **Serious:** serious injury (amputation, permanent disability); damage $5,000 to $500,000. | **Infrequent:** Occurs monthly to yearly. | **Remotely Possible**: Remotely possible coincidence (1 in 1,000 to 1 in 10,000 chance). | | 2 | **Medical Treatment:** medical treatment injury; damage up to $5000. | **Rare:** Occurs about once a decade. | **Conceivable**: Has never happened after many years’ exposure, but is conceivably possible  (1 in 10,000 to 1 in 100,000 chance). | | 1 | **First Aid Treatment:** minor cuts, bruises, bumps, minor damage | **Very Rare:** Has never been experienced. | **Practically Impossible**: Has never happened anywhere, an almost impossible sequence  (1 in 100,000 or lower chance). |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Risk Score** | **Risk Level** | | **Minimum Notification Review** | **Risk Calculation Method** | | 15-18 | Extreme | Exceeds the risk acceptance threshold. Unacceptable for work to proceed. | Chief Admin Officer | 1. Determine the most reasonable probable consequence that could result from the unwanted event. Identify the corresponding factor in the table. 2. Determine the frequency of exposure to the specific situation or condition (hazard). Identify the corresponding factor in the table. 3. Determine the probability of the unwanted event given the most likely reasonable consequence and the frequency of exposure. Identify the corresponding factor in the table. 4. Add the three factors together and determine the Risk Score. 5. Compare the Risk Score to the Risk Levels and Actions. | | 10-14 | High | Exceeds the risk acceptance threshold. Requires proactive management. | Director | | 6-9 | Moderate | Lies on the risk acceptance threshold. Requires active monitoring. | Manager/Supervisor | | 3-5 | Low | Acceptable Risk. | Worker | |