

CAS Project IBRA risk matrix



| RISK RANKING | | | | | | | | | | | |
|---|--|---|--|---|--|--|--------------------------|------------------|--------------------|---|--|
| | CONSEQUENCE / SEVERITY | | | | | | PROBABILITY / LIKELIHOOD | | | | |
| Safety (S) | Occupational Health (H) | Environment (E) | Quality (Q) | Reputational loss (C) | Legal liability (R) | Conceivable, but very unlikely (has no happened yet) (1/100 years or 1/lifetime) | business, but has | happen within 10 | less than once per | f Happens frequently - r Occurs in order of one or more times per year (1/month) | |
| | | | | | | 1 | 2 | 3 | 4 | 5 | |
| Multiple Fatalities | lethal effects - effects form exposure | Disastrous impact external to company premises on the environment. Irreversible effects to flora and fauna (e.g. total destruction of wetlands). | exceeding R100m or more / Loss of | condemnation. Irreparable damage to highly valued items of great | Potential for permanent closure of site operations, jail terms for executives and or very high fines for company, prolonged multiple litigation / major breach of other requirements | 5 5 | 10 | 15 | 20 | 25 | |
| Single fatality or permanent total disabilities | Permanent or lethal effects. Permanent effects - loss of quality of life, life threatening. | Severe impact on the environment. Reversible effects external to the company premises, to flora and fauna with long term damage (1-10 years) to widespread area of significance | Severe impact on the quality of the product or service / production loss exceeding R10m / serious impact on the customer. E.g. Unit (furnace) shutdown | media condemnation, very serious | Temporary suspension of operations, very significant prosecution and fines, multiple litigation / severe breach of other requirements | 4 4 | 8 | 12 | 16 | 20 | |
| Injuries that are reportable to the Inspectorate (Such as loss of limb, sight loss or severe disability to body functions) | Permanent Non-lethal effects. Permanent effects - loss of quality of life, but not life threatening. | Serious impact on the environment. Reversible effects to flora and fauna with short-medium term damage (1-5 years) to large areas of significance. | product or service / production loss | National multi-non-governmental | Very significant prosecution and fines, multiple litigation / severe breach of other requirements | 3 3 | 6 | 9 | 12 | 15 | |
| Injuries that require time off work / loss time injury / RWC (Restricted work case) - No permanent disabilities | | Moderate impact on the environment. Short term damage (<1 year) to small areas of limited significance. | Moderate impact on the quality of the product or service / production loss exceeding R0.1m / minor impact on the customer | going serious social issues. Significant damage to | Serious non-compliance and breaches of regulation, with investigation or report to authority with significant prosecution and fines / serious breach of other requirements | 2 2 | 4 | 6 | 8 | 10 | |
| Medical treatment required - Treat and return to work | Adverse health effects that may require on-site medical treatment - fit for work to start next shift. | Minor impact on the environment. Short term damage (Immediate rehabilitation possible) to small areas of limited significance. | product or service / production loss | criticism by Non-governmental | Minor non-compliance and breaches of regulation / other requirements | 1 1 | 2 | 3 | 4 | 5 | |
| | | | | | | | | | | | |
| GO (Low) | IOLERABLE | | | | Acceptable Risk - Monitor and manage risk | | | | | | |
| GO BUT (Moderate) | ALARP Reduce Risk to As Low as Reasonably Possible | | | | Substantial Risk - Implement preventative action and monitor action(s) | | | | | | |
| NO GO (High) | INTOLERABLE Significant and urgent action(s) required | | | | | | | | | | |
| NO GO | INTOLERABLE Significant and urgent action(s) required | | | | action(s) High Risk - Take immediate preventative action(s) or consider | | | | | | |

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