

Assigning Risk Assessment Codes

The information below has been provided to further detail the Risk Assessment Codes (RAC) in addition to the guidance already provided within the Risk Management Survey template tab titled "RAC Guidance". Please also use this RAC scoring guidance for the Occupational Safety and Health Survey template when applicable.

Evaluate the condition severity (Table 1) and determine the incident probability (Table 2) if the incident did occur. Then, using the RAC Matrix (Table 3), determine the RAC number for each identified risk condition.

The level of risk for each analyzed condition is expressed in terms of a RAC. The RAC(s) quantifies identified hazardous conditions and allows them to be prioritized. The RAC number reflects the risk potential of the resulting incident and not the individual event(s) contributing to the incident.

The following steps indicate how RAC values are assigned to potential conditions and their associated undesirable events:

1. Develop scenarios that describe how the most reasonable undesirable events affect the identified potential conditions.
2. Estimate the severity of each condition. The condition severity is based upon the potential impact of the condition if the undesirable event(s) occur. Quantitative risk assessment techniques, computer modeling, published information and professional judgment are to be used to determine the severity. See Table 1, Condition Severity.

TABLE 1 - CONDITION SEVERITY

Category	Personnel (One or More Persons)	Mission Importance	Mission <i>Impairment</i> Expected Time Period	Potential Replacement Cost Of Property/Data/ Retrieve Data
I	Death or permanent disability	Critical /Major/ Minor	Total mission loss	Over \$1,000,000
		Critical	> than 2 weeks	
II	Severe injury or severe occupational illness	Critical	< than 2 weeks	Between \$100,000 and \$1,000,000
		Major	> than 1 month	
III	Minor injury or minor occupational illness	Major	< than 1 month	Between \$10,000 and \$100,000
		Minor	> than 6 weeks	
IV	No/or insignificant injury or occupational illness	Minor	< than 6 weeks	Less than \$10,000
		Negligible	Minimal	

3. Estimate the probability of the undesirable event(s) occurring. Professional judgment is used to assign one of the incident probability categories. See Table 2, Incident Probability.

Table 2 - Incident Probability

Category	Definition
A	Likely to occur immediately or in a short period of time in the life of the facility.
B	Probably will occur during the life of the facility.
C	Possibly will occur during the life of the facility.
D	Unlikely to occur during the life of the facility.

4. Determine the RAC number for each identified condition analyzed. This is accomplished by using Table 3, RAC Matrix. The intersection of the Condition Severity and Incident Probability Category gives a direct reading of the applicable RAC.

TABLE 3 - *RISK ASSESSMENT CODE (RAC) MATRIX*

Severity Of The Condition Categories	Probability of Occurrence Categories			
	A	B	C	D
I	RAC 1	RAC 1	RAC 2	RAC 4
II	RAC 1	RAC 2	RAC 3	RAC 4
III	RAC 2	RAC 3	RAC 4	RAC 5
IV	RAC 4	RAC 4	RAC 5	RAC 5