

# Risk Assessment Code Matrix (RAC)

Severity Code \ Probability Code		Frequent (A)	Likely (B)	Occasional (C)	Rarely (D)
		Immediate danger to health and safety of the public, staff, or property and resources through continuous exposure.	Probably will occur in time if not corrected, or probably will occur one or more times.	Possible to occur in time if not corrected.	Unlikely to occur but may occur in rare circumstances.
<b>Catastrophic</b> Imminent and immediate, danger of death or permanent disability and/or total equipment loss.	<b>I</b>	<b>1</b> <b>CRITICAL</b>	<b>1</b>	<b>2</b>	<b>3</b>
<b>Critical</b> Permanent partial disability, temporary total disability, and/or severe equipment damage.	<b>II</b>	<b>1</b>	<b>2</b> <b>SERIOUS</b>	<b>3</b>	<b>4</b>
<b>Significant</b> Hospitalized minor injury, reversible illness, and/or significant equipment damage.	<b>III</b>	<b>2</b>	<b>3</b> <b>MODERATE</b>	<b>4</b> <b>MINOR</b>	<b>5</b>
<b>Minor</b> First aid, minor medical treatment, and/or minor equipment damage.	<b>IV</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>5</b> <b>NEGLIGIBLE</b>

RAC levels are identified by a numerical scale 1 - 5, with RAC-1 being the most critical requiring immediate response, RAC-5 being the least critical. RACs are annotated by the RAC Number, followed by the Frequency and Severity. Examples of RAC annotations are 1(A)(I) for a RAC-1 that has catastrophic consequences and a immediate danger frequency. A 4(IV)(B) would be a low level risk, with a minor severity and a likely probability.

## Risk Assessment Code (RAC)

### Severity Code

- Catastrophic (I)** Imminent and immediate, danger of death or permanent disability and/or total equipment loss.  
**Critical (II)** Permanent partial disability or temporary total disability, and/or severe equipment damage.  
**Significant (III)** Hospitalized minor injury or reversible illness, and/or significant equipment damage.  
**Minor (IV)** First aid, minor medical treatment, and/or minor equipment damage.

### Hazard Probability Code

- Frequent (A)** Immediate danger to health and safety of the public, staff, or property and resources through continuous exposure.  
**Likely (B)** Probably will occur in time if not corrected, or probably will occur one or more times.  
**Occasional (C)** Possible to occur in time if not corrected.  
**Rarely (D)** Unlikely to occur but may occur in rare circumstances.

### Definitions

- Probability** The likelihood that a hazard will result in a mishap or loss (Exposure in terms of time, proximity, and repetition).  
**Severity** The worst credible consequence that can occur as a result of a hazard.  
**Hazard** A condition or situation that exists within the working environment capable of causing physical harm, injury, or damage.  
**Risk** An expression of possible loss in terms of severity and probability (associated with human interaction).