

# MISHAP RISK MANAGEMENT PROCESS PROBABILITY CATEGORIES

TERM – KEY WORD	SYMBOL	SINGLE ITEM/ACTIVITY	FLEET OR INVENTORY OF ITEMS-MULTIPLE ACTIVITIES	INDIVIDUAL SOLDIER	ALL SOLDIERS EXPOSED TO THE HAZARD
<b>Frequent</b>	<b>A</b>	Likely to occur often in the life of an item or activity, with a probability of occurrence greater than 10 <sup>-1</sup> in that life.	Continuously experienced.	Occurs very often in the career. Expected to occur several times during mission or operations. Always occurs.	Occurs continuously during a specific mission, operation, or during a career.
<b>Likely</b>	<b>B</b>	Will occur several times in the life of an item or activity, with a probability of occurrence less than 10 <sup>-1</sup> and greater than 10 <sup>-2</sup> in that life.	Will occur frequently.	Occurs several times in the career. Expected to occur during a specific mission or operation.	Occurs at a high rate, but experienced intermittently (regular intervals, generally often.)
<b>Occasional</b>	<b>C</b>	Likely to occur some time in the life of an item or activity, with a probability of occurrence less than 10 <sup>-2</sup> and greater than 10 <sup>-3</sup> in that life.	Will occur several time.	Occurs some time in career. May occur during a specific mission or operation, but not often.	Occurs several times in a career.
<b>Seldom</b>	<b>D</b>	Unlikely but possible to occur in the life of an item or activity, with a probability of occurrence less than 10 <sup>-3</sup> and greater than 10 <sup>-6</sup> in that life.	Unlikely, but can reasonably be expected to occur.	Possible to occur some time in a career, but rarely. Not expected to occur during a specific mission or operation.	Occurs rarely within the exposed population as isolated incidents.
<b>Unlikely</b>	<b>E</b>	So unlikely, it can be assumed occurrence may not be experienced, with a probability of occurrence less than 10 <sup>-6</sup> .	Unlikely to occur, but possible.	Occurrence not impossible, but can assume will almost never occur during a career. Can assume will not occur during a specific mission or operation.	Occurs very rarely (almost never or improbable). Incident may occur over a career.

**(Table 3–4) Mishap Risk Management Process severity categories**

Severity	Symbol	Quantitative Value	Quantitative Value	Definition
<b>Catastrophic</b>	<b>I</b>	1 or more deaths or permanent total disabilities.	Loss exceeding \$1M	Loss of ability to accomplish the mission or mission failure. Death or permanent total disability (accident risk). Loss of major or mission- critical system or equipment. Major property (facility) damage. Unacceptable collateral damage.
<b>Critical</b>	<b>II</b>	1 or more permanent partial disabilities or temporary total disability resulting in more than 3 months lost time.	Loss exceeding \$200K but less than \$1M	Significantly (severely) degraded mission capability or unit readiness. Permanent partial disability, temporary total disability exceeding 3 months time (accident risk). Extensive (major) damage to equipment or systems. Significant damage to property. Significant collateral damage.
<b>Marginal</b>	<b>III</b>	1 or more injuries or illnesses resulting in less than 3 months lost time.	Loss exceeding \$20K but less than \$200K	Degraded mission capability or unit readiness. Minor damage to equipment or systems, or property. Lost days due to injury or illness not exceeding 3 months (accident risk).
<b>Negligible</b>	<b>IV</b>	1 or more injuries or illnesses requiring first aid or medical treatment.	Loss less than \$20K	Little or no adverse impact on mission capability. First aid or minor medical treatment (accident risk). Slight equipment or system damage, but fully functional and serviceable. Little or no property damage

**(Table 3–5) Standardized Army Risk Matrix (Probability)**

Severity	Frequent A	Likely B	Occasional C	Seldom D	Unlikely E
<b>Catastrophic I</b>	<b>E (1)</b>	<b>E (1)</b>	<b>H (2)</b>	<b>H (2)</b>	<b>M (3)</b>
<b>Critical II</b>	<b>E (1)</b>	<b>H (2)</b>	<b>H (2)</b>	<b>M (3)</b>	<b>L (4)</b>
<b>Marginal III</b>	<b>H (2)</b>	<b>M (3)</b>	<b>M (3)</b>	<b>L (4)</b>	<b>L (5)</b>
<b>Negligible IV</b>	<b>M (3)</b>	<b>L (4)</b>	<b>L (4)</b>	<b>L (5)</b>	<b>L (5)</b>

**(Table 3–6) Risk Matrix codes and descriptions**

Symbol	Risk Assessment Code (RAC)	Description
<b>E</b>	<b>1</b>	<b>Extremely High</b>
<b>H</b>	<b>2</b>	<b>High</b>
<b>M</b>	<b>3</b>	<b>Moderate</b>
<b>L</b>	<b>4</b>	<b>Low</b>
<b>L</b>	<b>5</b>	<b>Low</b>