

Table 1.1. Confidence in Hazard Characterization.

Low	Potential health outcome based solely upon a qualitative review of the workplace. No quantitative data available for this or similar processes. The source of the hazard has the potential to generate exposures above the action level
Medium	Potential health outcome based upon a detailed administrative and onsite review of processes within the workplace and application of professional judgment supported by application of objective based engineering principles. Screening samples or initial air sampling results are within acceptable limits, but not totally conclusive.
	Comparison to similar, characterized USAF and or private sector operations (qualitative or quantitative).
High	The “Medium” rating supported by sufficient quantitative evaluation, or detailed technical reports where environmental factors do not influence exposure. Further quantification is not required.
	The source of hazard does not have potential to generate significant exposures (for example: soldering with low-output irons).

Table 1.2. Confidence in Controls.

Low	Controls inadequate to control exposure.
	Controls in poor state of repair/non-operational/not actively used.
Medium	Controls will control worker exposure to acceptable level when adhered to. Examples are reliance solely on administrative controls and/or PPE.
High	Engineering controls/administrative controls in place and fully operational. Evaluations completed to demonstrate adequate exposure control.

Table 1.3. Exposure Probability Factors.

Confidence in Hazard Characterization	Confidence in Existing Controls		
	<i>Low</i>	<i>Medium</i>	<i>High</i>
<i>Low</i>	A	A	B
<i>Medium</i>	A	B	C
<i>High</i>	B	C	D

Table 1.4. Health Hazard Severity.

<i>Catastrophic</i>	Death or incapacitating or irreversible acute occupational illness or injury.
<i>Critical</i>	Severe occupational injury/illness. Includes chronic (e.g. cancer), acute (e.g. sensitization), and/or hearing loss.
<i>Moderate</i>	Minor occupational illness (e.g. nausea, headache, dermatitis,) that results in reduced capacity to perform.
<i>Negligible</i>	Less than minor occupational illness, (e.g. irritation).

Combining the exposure probability and severity factors yields an operational risk for the hazard evaluated ([Table 1.5.](#)).

Table 1.5. Operational Risk Analysis Matrix.

	Exposure Probability			
Severity	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
<i>Catastrophic</i>	0	0	1	2
<i>Critical</i>	0	1	2	3
<i>Moderate</i>	1	2	2	3
<i>Negligible</i>	2	3	3	3

Table 1.6. Mission Impact.

Hazard Risk Rating	Project Prioritization
0-Extremely High	0-Must Do (Mission Failure)
1-High	1-Mission Critical
2-Medium	2-Mission Enhancement
3-Low	3-Nice to Do