**LabRAT for Lab Procedures**

**Instructions**

Complete the LABRAT as part of the procedure review. Scoring is based on a 0-5 scale, with

0 being “NOT APPLICABLE” and 5 being “Extreme” Your can assign any score to a specific box applicable, even if the score vale is not shown on the RAT. After scoring, interpret the score by following the guidelines given on the second page.

|  |  |  |  |
| --- | --- | --- | --- |
| Chemical volumes | Micro  <0.5 L | Normal  0.5 2.0L | Large  >2.0L |
|  | 1 | 2 3 4 | 5 |
| Harazard Recognition  USE HIGHEST SCORE ONLY | None | Routine | Extreme |
| Flammable | 0 | 1 2 3 | 4 5 |
| Corrosive | 0 | 1 2 3 | 4 5 |
| Toxic | 0 | 1 2 3 | 4 5 |
| Cryogenic | 0 | 1 2 3 | 4 5 |
| Process Conditions N/A | Sub-ambient (P<1 atm; T<10°C) | Ambient (P = 1atm; 10°C < T <40° C) | Extreme |
| 0 | 3 | 1 2 3 | 3 5 |
| Explosive Hazard | No | Yes |  |
| 0 | 0 | 5 |  |
| Radiation Hazard | Minimal | Normal | High |
| 0 | 1 2 | 3 4 | 5 |
| Other Hazard: Specify, Score | Minimal | Normal | High |
| 0 | 1 2 | 3 4 | 5 |
| Special Hazards | N/A |  | Yes |
| Inhalation Toxicity  Reactive  Noise Production  Vibration Production  Odor Production | 0  0  0  0  0 |  | 5  5  5  5  5 |
| Procedure | Detailed & Written | Routine | Under Developed |
|  | 0 | 1 2 3 4 | 5 |
| Personnel; Preparedness & Training | Fully Trained & Prepared | Routine | Untrained |
|  | 0 | 2 4 | 5 |
| Ventilation Needed | Hood Used | General Lab Only | Not Used |
|  | 0 | 3 4 | 5 |
| Shielding Needed | N/A | Used | Not Used |
|  | 0 | 0 | 5 |
| Equipment Maintenance | Regularly Performed & Documented | | Never Performed |
|  | 0 | 1 2 3 4 | 5 |

Initial Score \_\_\_\_\_\_\_\_

|  |  |  |
| --- | --- | --- |
| **Recommended Action Based On Score\* \*\*** | | |
| Low | <15 | Procedure can be performed with routine precautions |
| Moderate | 15-25 | Procedure can be performed with attention given to specific hazards. Supervision is recommended. |
| High | 26-30 | Procedure may be performed if necessary. High level attention must be given to all hazards. High level, continuous supervision is mandatory. |
| Extreme | >30 | Procedure must be revised to lower risk |

\* If score is >15 a PHA must be submitted by the Student Group.

\*\* If score is >25, risk reduction actions should be identified and implemented.