|  |  |  |  |
| --- | --- | --- | --- |
| College of Engineering Lab Hazard Assessment | | | |
| Activity | Yes | No | Comments |
| Working with gas under pressure, in gas cylinders or as part of experimental conditions |  | X |  |
| Working with water volume in excess of 1 gallon | X |  | Working with 20L of 20ppm orthophosphate synthetic waste water |
| Working with corrosive Liquids |  | X |  |
| Working with organic solvents or flammable chemicals |  | X |  |
| Working with acutely toxic , carcinogenic or highly hazardous chemicals |  | X |  |
| Working with air or water reactive chemicals |  | X |  |
| Working with engineered nanomaterials such as carbon nanotubes, silver wire, carbon fiber etc. or other dusts with particle sizes <10 um |  | X |  |
| Working with potentially explosive chemicals |  | X |  |
| Working with temperaturs <0C or >100C |  | X |  |
| Working with radioactive compounds |  | X |  |
| Working with Class 3 or Class 4 Lasers |  | X |  |
| Working with cryogenic materials including dry ice |  | X |  |
| Working with liquids >100C including from sources such as oil bath, water bath, pressure vessel, autoclave etc.) |  | X |  |
| Working with open flames |  | X |  |
| Working with loud equipment (>85 db) |  | X |  |
| Working with a centrifuge |  | X |  |
| Working with a sonicator |  | X |  |
| Working with sharp objects such as needles, knives, razor blades etc. |  | X |  |
| Working with machine hazards such as pinch points, caught by or stuck by dangers etc. | X |  | Using stirrer motorized by power drill |
| Working with electrical hazards such as un-insulated wiring, exposed control panels, wet conditions, etc. |  | X |  |
| Working with electrical voltage in excess of 110V |  | X |  |
| Working with batteries, all types such as lead-acid, nickel-cadmium, lithium etc. |  | X |  |
| Working with high center of gravity hazards such as tall apparatus that requires extra support etc. |  | X |  |