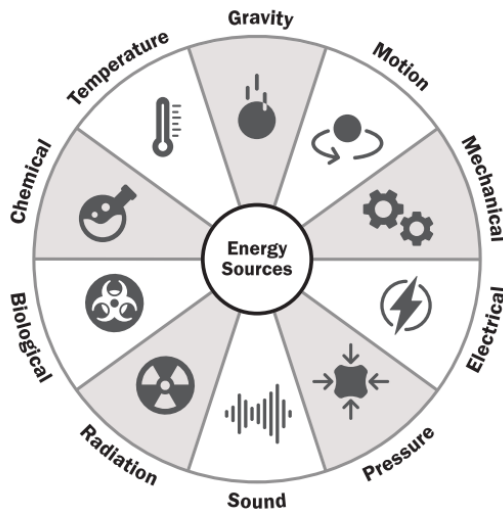


# Field Level Risk Assessment (FLRA) - Energy based model

This is a field level risk assessment (FLRA) tool that may be used to identify potential hazardous acts or condition on any worksite. The tool is designed to be used by front line workers, occupational health and safety committee members, and supervisors to recognize and support reduction of risk resulting from hazardous energy.



**The hazardous energy wheel is a visual representation of energy found in the workplace that, if released, has the risk of causing an injury.**

Energy sources	Examples/descriptions
<b>Temperature</b>	Hot/cold surfaces, weather, low boiling point heat transfer
<b>Gravity</b>	Dropping objects, gas settling in low areas, falls
<b>Motion</b>	Vibration, product flow, vehicles, people moving
<b>Mechanical</b>	Rotating equipment, robotics, shoots, drums, conveyors
<b>Electrical</b>	Static build up, high voltage, exposed electrical cords
<b>Pressure</b>	Fuel tanks, cylinders, air pressure, pipe pressures, pressure relief valves
<b>Sound</b>	High noise levels, continuous noise, distracting sounds
<b>Radiation</b>	Non-destructive testing, x-rays, lighting, UV
<b>Biological</b>	Bloodborne pathogens, human virus/bacteria, animal diseases
<b>Chemical</b>	Flammable liquids, gases, acids, oxidizers, pipe corrosion

Date	
Time	
Location/task	
Weather	
Participants	

## Risk assessment matrix

	1	2	3	4	5
5	5	10	15	20	25
4	4	8	12	16	20
3	3	6	9	12	15
2	2	4	6	8	10
1	1	2	3	4	5
	Consequence				

### Risk rating

<b>High</b>	– work stops until risk is addressed
<b>Medium</b>	– implement temporary precautions until risk is addressed
<b>Low</b>	– address risk as soon as reasonably practical

### Likelihood (probability/frequency)

- 5. Almost certain** (expected to occur regularly under normal circumstances)
- 4. Likely** (expected to occur at some time under normal circumstances)
- 3. Possible** (may occur at some time under normal circumstances)
- 2. Unlikely** (not likely to occur under normal circumstances)
- 1. Rare** (could happen, but probably never will under normal circumstances)

### Consequence

- 5. Fatality**
- 4. Major Injury** (permanent disability)
- 3. Serious Injury** (time loss incident)
- 2. Medical aid Incident** (healthcare facility treatment)
- 1. Minor Injury** (first aid at worksite)

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Energy	Identify Hazard	Assess Risk (high, med, low)	Select level of controls	Controls Implemented	Action (If required)	Completed (date) by (Initials)
Temperature						
Gravity						
Motion						
Mechanical						
Electrical						
Pressure						
Sound						
Radiation						
Biological						
Chemical						

If an identified hazard remains a high risk with control in place, or because inadequate or missing control, do not proceed with work. Speak to your supervisor immediately. Medium risks may also require supervisor support.