

Energy Form	Energy Source	General Lockout Guideline
Electricity	<ul style="list-style-type: none"> - Power transmission lines - Machine power cords - Motors - Solenoids - Capacitors - Generators - Batteries 	<ul style="list-style-type: none"> - Turn off power at machine first (point of operation switch) and then at main disconnect switch for machine; lock and tag main disconnect switch (or remove fuses from box, and then lock and tag box). - Fully discharge all capacitive systems (e.g. cycle machine to drain power from capacitors) according to manufacturer's instructions. - Install grounds where necessary.
Fluid Pressure	<ul style="list-style-type: none"> - Hydraulic systems (rams, presses, cylinders) 	<ul style="list-style-type: none"> - Shut off, lock (with chains, built-in lockout devices, or lockout attachments) and tag valves; bleed off and blank lines

		<ul style="list-style-type: none"> as necessary. - Block any possible movement of machinery.
Air Pressure	<ul style="list-style-type: none"> - Pneumatic systems (lines, air surge tanks, pressure reservoirs, accumulators, cylinders) 	<ul style="list-style-type: none"> - Shut off, lock (with chains, built-in lockout devices, or lockout attachments) and tag valves; bleed off excess air. If pressure cannot be relieved, block any possible movement of machinery.
Kinetic Energy (moving objects that are powered or coasting)	<ul style="list-style-type: none"> - Blades - Flywheels - Materials in supply lines of bins or silos 	<ul style="list-style-type: none"> - Stop and block machine parts, and ensure that they do not recycle. Review entire cycle of mechanical motion; ensure that all motions are stopped. - Block material from moving into area of work and blank as required.
Potential Energy (objects with the potential for release of energy due to position)	<ul style="list-style-type: none"> - Springs - Actuators - Counterweights - Raised loads - Top or movable part of a press or lifting device 	<ul style="list-style-type: none"> - If possible, lower all suspended parts and loads to the lowest (rest) position, block parts that might move due to gravity; release or block stored spring energy.
Pressurized liquids & gases	<ul style="list-style-type: none"> - Steam/chemical supply lines - Storage tanks & vessels 	<ul style="list-style-type: none"> - Shut off, lock (with chains, built-in lockout devices, or lockout attachments) and tag valves; bleed off excess liquids or gases; blank lines as necessary.