

INSTRUCTOR SELF-ASSESSMENT

MACHINE GUARDING- KEY

KNOWLEDGE

What is the purpose of power outage protection?

- Keeps the machine operating even when shop loses power
- Prevents the machine from automatically restarting when power is restored
- Assures that critical machinery remains operational at all times

MG, part 1, slide # 8

On a bench-top grinder, the work/tool rest and the rotating abrasive wheel create a:

- Nip point
- Shearing point
- Transverse motion
- Reciprocating motion

MG, part 2, slide # 8,9

Which of the following parts of a machine should be guarded?

- The power transmission
- The point of operation
- The feed-line components
- The lead screw on a lathe
- The chip conveyor

MG, part 1, slide # 3,4, 13

Two-hand controls are an example of a:

- Guard
- Procedure
- Device
- LOTO

MG, part 3, slide # 14

A pressure mat is not an acceptable way to guard a point of operation.

- True
- False

MG, part 1, slide # 3

When multiple people are operating a press, which of the following statements must be True?

- Each operator should have an individual set of controls
- One set of controls is adequate if work flow is coordinated
- An emergency stop should be readily accessible to each worker
- If present, foot controls should be guarded to prevent accidental activation

MG, part 1, slide # 7



On every machine, moving parts located less than ____ feet above the floor must be guarded.

- 12
- 10
- 8
- 7

MG, part 1, slide # 4

Which of the following are attributes of a proper machine guard?

- Prevents hands from contacting moving parts
- Cannot be easily removed without tools
- Holds stock in place
- Creates no new hazards
- Is tamper-resistant

MG, part 3, slide # 4

Which of the machines and equipment in a shop are required to comply with the OSHA Machine Guarding standard?

- Only those manufactured after 1970, the year OSHA was created
- Only those for which the original manufacturer provides guards
- Only those that have moving parts that can injure an employee
- Compliance with the OSHA standard depends on when and where the machine was produced

[OSHA standards 1910.211 to 219](#)

Does OSHA allow a shop owner to purchase or manufacture machine guards for a piece of equipment if guards were not provided by the original manufacturer?

- Yes
- No

MG, part 3, slide # 20

A properly functioning E-stop will:

- Allow a machine to re-start automatically after a power failure
- Not allow a machine to re-start after a power failure
- Be adjustable to allow a machine to re-start when the power comes back on
- Automatically turn off the machine after a certain number of hours

MG, part 1, slide # 8

Machine guards for mills and drills must prevent eye injuries and comply with the Z87 standard requirements.

- True
- False

MG, part 3, slide # 10



Which of the following are characteristics of a shield?

- Is a fixed part of the machine
- Can be repositioned
- Protects the machine operator from chips and coolant
- Fully encloses the machine point of operation

MG, part 3, slide # 10

OSHA requires that the machines designed for fixed locations are anchored in place.

- True
- False

MG, part 1, slide # 18

When using compressed air for cleaning machinery, OSHA requires that the air pressure must be reduced to:

- 20 psi
- 25 psi
- 30 psi
- 35 psi

MG, part 1, slide # 12

Complete the following sentence to make it a True statement: An OSHA-compliant air-gun...

- Operates only at pressures below 50 psi, regardless of the air-line pressure
- Has relief valves that reduce air pressure to under 30 psi when dead-ended
- Is manufactured and sold by OSHA
- Has a stamp reading "OSHA" on the handle
- Is made using special steel alloys

MG, part 1, slide # 12

