

GUARDS AND GUARDING (P37)

CANDIDATE NAME: GROUP NO:

PASS

Needs more training: Date:

ASSESSOR: *PRINT* *SIGN*

INTRODUCTION

Using the information in the folder, your experience and investigating the pieces of equipment, provide your recommendations and ideas to complete the assignment.

All of the equipment is located within TTE so if a visual inspection of the machines is required the location is given for each inspection.

Please ensure that the report is filled in neatly and any sketches are to an acceptable standard.

Machine 1: Location Welding Workshop

Name: Morgan Rushworth Machine

MACHINE 1

Identify three guard/trip systems employed on the machine:-

- i)
- ii)
- iii)

Indicate which part of the machine or use of the machine could cause the following types of hazards:-

- a) Cutting Hazards
- b) Impact Hazards
- c) Stabbing by flying objects
- d) Crushing Hazards
- e) Shear Hazards

Indicate one extra guarding measure that could practically be use on the machine:

Location: Machine shop

Dean Smith and Grace Centre Lathe

MACHINE 2

Identify guard's safe operating procedures /safety features employed when operating this machine:-

- i)
- ii)
- iii)

When operating the machine, identify the areas in which following hazards could occur:

- a) Cutting Hazard
- b) Impact Hazard
- c) Shear Hazards
- d) Crushing Hazards

Indicate safe working practices that could practically be used on the machine.

Location: Welding Workshop Roller MACHINE 3

Identify the main type of hazard that occurs when using this machine:

Why are there no guards around the rollers?

What advantages would a single operator have in reducing potential accidents that two operators may cause?

What advantages would two operators have in reducing potential accidents that a single operator may cause?

Welding Workshop Sheet cutting Machine

MACHINE 4

When the machines are in line and electrically connected, what three trip systems should be employed?

- i)
- ii)
- iii)

What part of the machine, if it is connected up as it is, is going to present the greatest hazard?

What method should be employed to eliminate this?

MACHINE 5

List five potential hazards that could cause an injury on this rig.

- i)
- ii)
- iii)
- iv)
- v)

Provide a method of guarding two of these hazards.

- i)

ii)

Fan in workshop 5

MACHINE 6

Identify the main type of hazard when using this machine:

State how an operator could become entangled on a rotating and protruding part of the machine.

i)

ii)

List three safety devices that should be used in conjunction with this machine.

i)

ii)

iii)

Pedestal Grinding Machine in the machine shop

MACHINE 7

What hazards do you think would be met with and how would you eliminate these hazards on this machine?

What two safety systems need to be included with this machine when electrically and mechanically installed?

i)

ii)

What type of hazards can you could be present when using the machine that are not directly due to the machine?

i)

ii)

iii)

Machine Shop Scandinavia Drilling Machine
MACHINE 8

Identify three guards/safety systems used on the machine.

i)

ii)

iii)

State three hazards associated with the machine when it is running.

i)

ii)

iii)

State the hazards associated with the machine when not in use.