



NVQ Level 5 Semester I Examination

Fluid Power Technology

Occupational Health and Safety & Safe Working Environment – E40C00M03

Instructions to Candidates:

Answer any five (05) questions.

Time: 03 hours

Total Marks: 100

Q01.

- a) What is meant by the term Occupational Health and Safety (08 Marks)
- b) Explain the purpose of the General Register of Factories. (08 Marks)
- c) Who are responsible for the enforcement of this requirement (04 Marks)

Q02.

- a) Mention the meanings of the following terms,
 - (i) Major accident (02 Marks)
 - (ii) Minor accident (02 Marks)
 - (iii) Near Miss (02 Marks)
 - (iv) Unsafe Acts (02 Marks)
- b) Describe the reasons for causing industrial accidents. (07 marks)
- c) What actions are taken by the management to minimize accidents occurring in their organizations (05 Marks)

Q03.

- a) List down the personal protective equipment (PPE) used for the following operations,
 - i) Arc welding (02 Marks)
 - ii) Grinding (02 Marks)
 - iii) Working at heights (02 Marks)
 - iv) Congested work environments. (02 Marks)
- b) What is a Work Permit? What areas have to be checked when issuing a work permit (07 Marks)
- c) What are hot work certificates? (05 Marks)

Q04.

- a) What are the information given in a Material Safety Data Sheet (08 Marks)
- b) What is meant by the term Fire Triangle? Explain the significance of the fire triangle, When fighting a fire. (04 Marks)
- c) What type of fire extinguishers are used to fight under mentioned classes of fires
- i) General fires (wood, paper, textile etc.) (02 Marks)
 - ii) Oil fires (02 Marks)
 - iii) Electrical fires (02 Marks)
 - iv) Metal fires (02 Marks)

Q05.

- a) Describe the role of “Safety Committees” (08 Marks)
- b) Explain the purpose of carrying out a Risk Assessment. (HIRA) (08 Marks)
- c) What are Safety Management Programs (SMP’s) (04 Marks)

Q06.

- (a) What is meant by the term Emergency Preparedness (08 Marks)
- (b) Explain the purpose of conducting fire drills. (08 Marks)
- c) How often the Fire drills should be conducted (04 Marks)