## National Exams May 2019 17-Ind-B10 Workplace Health and Safety 3 hours duration

## NOTES:

- 1. If doubt exists as to the interpretation of any question, the candidate is urged to submit with the answer paper, a clear statement of any assumptions made.
- 2. This is a Closed Book exam. No calculators are allowed for this exam.
- 3. Any five questions constitute a complete paper. Only the first five questions as they appear in your answer book will be marked.
- 4. All questions are of equal value.
- 5. Write your answers in point-form whenever possible, but fully.

## Marking Scheme (marks)

- 1. (i) 7, (ii) 7, (iii) 6
- 2. (i) 6, (ii) 7, (iii) 7
- 3. (i) 7, (ii) 7, (iii) 6
- 4. (i) 7, (ii) 7, (iii) 6
- 5. (i) 7, (ii) 6, (iii) 7
- 6. (i) 7, (ii) 6, (iii) 7
- 7. (i) 7, (ii) 7, (iii) 6

- (i) Define the term 'policy statement' as related to industrial safety as explained in the Ontario Health and Safety Act (OHSA). What types of issues should the policy statement cover?
  - (ii) State who has responsibilities under the policy and what their responsibilities are.
  - (iii) Write a note on the need and objectives of 'safety standards' in an industry, focusing on how accidents are reported/documented, investigated and analyzed. How does it help in the prevention of future accidents?
- 2. (i) As detailed by the Canadian Centre for Occupational Safety, what is a hazard control program and why is it important to monitor and review the program and methods regularly?
  - (ii) When dealing with chemical agents how you know what kind of control method is required.
  - (iii) What are the main ways to control a hazard? Provided a detailed description of each.
- 3. (i) What are the responsibilities of facilities and equipment designers in providing the need for environment control?
  - (ii) How do 'noise' and 'heat' effect the efficiency and accuracy of the work environment?
  - (iii) What essential steps need to be undertaken for safeguarding the health of the workers?
- 4. (i) What is your understanding of the terms for the three tasks that constitute the central activities in any risk management framework? A)Risk estimation B)Risk evaluation C)Risk control
  - (ii) What sections should be included in a risk management policy?
  - (iii) Choose 4 risk assessment techniques and write a brief description detailing the importance of this technique and how is it utilized.
- 5. (i) Explain what a job safety analysis is and what the benefits of completing one are.
  - (ii) In detail, describe the stages associated with a job safety analysis.
  - (iii) What are the basic steps of an effective training plan as it relates to the job safety analysis to ensure that the operators follow the operating procedures?
- 6. (i) What are the key methods for controlling hazards in the workplace?
  - (ii) When applying controls what are the (3) areas where controls can be placed?
  - (iii) Describe how the best method is chosen, can there be more than one and why?
- 7. (i) Create a simple process flow chart for any industrial process. (min. 6 steps)
  - (ii) Explain the hazards that may be present at each step as well as the controls that are in place for the identified hazard.
  - (iii) Create an alternate process flow chart that would reduce the number of hazards listed in your original flow chart.