

**Chapter Three**  
**THEORIES OF ACCIDENT CAUSATION**

**TRUE OR FALSE: Place T or F in the space provided.**

- \_\_\_\_\_ 1. Theories of accident causation are used to predict and prevent accidents.
- \_\_\_\_\_ 2. Why accidents happen is a concern for health and safety decision-makers.
- \_\_\_\_\_ 3. An accident program should take all 10 axioms into account to be effective.
- \_\_\_\_\_ 4. The domino theory of accident causation is used to predict and prevent accidents.
- \_\_\_\_\_ 5. According to Heinrich's Axioms on Industrial Safety, the plant manager is the key person concerning industrial accidents.
- \_\_\_\_\_ 6. The human factors theory of accident causation attributes accidents to a chain of events caused by human error.
- \_\_\_\_\_ 7. The accident/incident theory is an extension of the human factors theory.
- \_\_\_\_\_ 8. Epidemiological theory has focused on accidents caused by overload, inappropriate response, and inappropriate activities.
- \_\_\_\_\_ 9. The systems theory of accident causation views any stem in which an accident might occur as a system with one component.
- \_\_\_\_\_ 10. The cause of all accidents can be explained by only one theory.

**MULTIPLE CHOICE: Circle the letter before the correct answer.**

1. Herbert W. Heinrich's 1920s study concluded that the majority of industrial accidents were caused by \_\_\_\_\_.
  - A. Unsafe acts committed by fellow workers
  - B. Poor management
  - C. Lack of health and safety programs
  - D. Faulty machines and equipment
2. Three factors that lead to human error in the human factors theory are \_\_\_\_\_.
  - A. Carelessness, training, and management
  - B. Carelessness, overload, and training
  - C. Pressure, motivation, and fatigue
  - D. Overload, inappropriate response, and inappropriate activities
3. Ergonomic traps, overload, and/or a decision to err lead to human error in which of the following theories?
  - A. Human factors theory

- B. Epidemiological theory
  - C. Accident/incident theory
  - D. Domino theory
4. The systems theory views a situation in which an accident might occur as a system comprised of components in which of the following?
- A. Person, machine, and motivation
  - B. Motivation, peer pressure, and overload
  - C. Person, machine, and environment
  - D. Attitude, risk, and motivation
5. In which of the following theories might an actual cause be combined with two or more models?
- A. Domino theory
  - B. Combination theory
  - C. Systems theory
  - D. Human factory theory

### Answers

#### True/False

- |      |       |
|------|-------|
| 1. T | 6. T  |
| 2. T | 7. T  |
| 3. T | 8. F  |
| 4. F | 9. F  |
| 5. F | 10. F |

#### Multiple Choice

- |      |
|------|
| 1. A |
| 2. D |
| 3. C |
| 4. C |
| 5. B |

**Chapter Four**  
**OCCUPATIONAL HEALTH AND SAFETY LEGISLATION IN CANADA**

**TRUE OR FALSE: Place T or F in the space provided.**

- \_\_\_\_\_ 1. The Canadian legal system is based largely on the French system.
- \_\_\_\_\_ 2. The British North America Act (BNA Act, 1867) established workers' "right to refuse".
- \_\_\_\_\_ 3. Health and safety legislation is usually under provincial or territorial jurisdiction.
- \_\_\_\_\_ 4. Bank employees are protected by the Canada Labour Code.
- \_\_\_\_\_ 5. WHMIS is covered under both federal and provincial/territorial legislation .
- \_\_\_\_\_ 6. Workers play only a small role in health and safety.
- \_\_\_\_\_ 7. It is not always required that an employer exercise due diligence with workplace safety.
- \_\_\_\_\_ 8. Health and safety committees are required in all workplaces.
- \_\_\_\_\_ 9. The internal responsibility system provides a cost-effective mechanism for promoting health and safety in the workplace.
- \_\_\_\_\_ 10. Health and safety committees are a key component in a worker's "right to participate".

**MULTIPLE CHOICE: Circle the letter before the correct answer.**

1. Which of the following pieces of legislation limits the powers of the Canadian parliament today?
- A. The Magna Carta
  - B. The British North America Act
  - C. The Constitution Act
  - D. Bill C-45
2. Which piece of legislation outlines the rights, responsibilities, and duties of Coast Guard employees?
- A. The Occupational Health and Safety Act of Newfoundland and Labrador
  - B. The Workers Compensation Act of British Columbia
  - C. The Canada Labour Code
  - D. None of the above
3. Which of the following does not play a key role in occupational health and safety on the job?
- A. Workers
  - B. Supervisors
  - C. Employers
  - D. Family members

4. Which statement best describes the internal responsibility system?
- A. Management and a government agency working together to solve health and safety issues in the workplace
  - B. Workers and government inspectors working together to get management to force management into compliance with the Act.
  - C. Government inspectors taking over the health and safety committee, because it has become ineffective.
  - D. Management and workers working together to solve health and safety problems within the company.
5. Which agency has standards adapted by most Canadian jurisdictions?
- A. The American Conference of Governmental Industrial Hygienists (ACGIH).
  - B. The Canadian Standards Association.
  - C. Both of the above
  - D. None of the above.

**Answers****True/False**

- |      |       |
|------|-------|
| 1. F | 6. F  |
| 2. F | 7. F  |
| 3. T | 8. F  |
| 4. T | 9. T  |
| 5. T | 10. T |

**Multiple Choice**

- |      |
|------|
| 1. C |
| 2. C |
| 3. D |
| 4. D |
| 5. C |