



## Professional Qualification in SHIPPING & LOGISTICS Level 4 Diploma

### UNIT 4 – THE MOVEMENT OF DANGEROUS GOODS

#### Question 1

- (a) **Identify THREE** topic areas contained in the IMDG Code that have enabled the safe carriage of dangerous goods by sea. (6 marks)
- (b) Using your answer to Question 1a, **discuss** how **TWO** of these topic areas have minimised the risk of accidents to the cargo and ship occurring. (14 marks)

#### Question 2

- (a) **Describe** how the IMDG Code can be used to assess the correct vertical and horizontal separation of dangerous goods on board a container ship. (6 marks)
- (b) **Discuss** the considerations for the stowage of dangerous goods on a container ship that are classified as being pressure and temperature sensitive. (14 marks)

#### Question 3

**Discuss** the operational procedures involved in the loading of dangerous liquid goods in bulk by a chemical tanker when berthed in the loading port. (20 marks)

#### Question 4

- (a) **State TWO** types of records maintained on a chemical tanker related to the handling of dangerous cargo. (4 marks)
- (b) **Identify THREE** areas of action contained in a Shipboard Oil Pollution Emergency Plan (SOPEP) to minimise a pollution incident on deck. (6 marks)
- (c) **Assess** the possible safety consequences of loading several types of dangerous chemicals in bulk into a chemical tanker when it was later found the chemicals were not to be loaded in adjacent tanks and the tank coatings were unsuitable. (10 marks)

#### Question 5

- (a) **Illustrate** the type of information shown on a dangerous goods placard attached to the side of a twenty foot dangerous goods container. Use a diagram to support your answer. (10 marks)
- (b) **Discuss** the benefits of a Dangerous Goods Note (DGN) to all the parties involved in the transportation of the dangerous cargo consignment. (10 marks)