



Professional Qualification in SHIPPING & LOGISTICS

Level 4 Diploma

UNIT 4 – THE MOVEMENT OF DANGEROUS GOODS

Question 1

- (a) **State** the full title of (MARPOL) 73/78 Annex 3. (4 marks)
- (b) **State FOUR** title areas contained in Annex 3. (4 marks)
- (c) Referring to your answer to Question 1a, **explain** how **TWO** of these title areas enhance safety at sea. (12 marks)

Question 2

- (a) **State** how long the information contained on packages containing harmful substances must be identifiable. (4 marks)
- (b) **Discuss TWO** factors contained in (MARPOL) 73/78 Annex 3 that need to be considered when limiting the quantities of harmful substances carried in any one ship. (6 marks)
- (c) **Explain** how to reference the IMDG Code to identify the limitation of dangerous goods that may be carried on a specific ship. (10 marks)

Question 3

- (a) **Identify THREE** safety considerations as required by the IMDG Code in the loading of dangerous goods by container. (6 marks)
- (b) **Compare** and **contrast** the procedures involved in the safe handling of dangerous goods by Roll on Roll Off (Ro-Ro) ships with that of container vessels. (14 marks)

Question 4

Discuss the possible safety and commercial consequences from the following case study: A 2,000 teu container feeder vessel was incorrectly loaded with a flammable liquid container being loaded on top of a container carrying explosives. The vessel suffered a fire on deck in the vicinity of these containers, the fire was difficult to extinguish and the vessel proceeded to the nearest port of refuge. (20 marks)

Question 5

- (a) **Describe FOUR** details required on dangerous goods documentation. (8 marks)
- (b) **Discuss** the use of **TWO** types of dangerous goods documentation. (12 marks)