



Professional Qualification in SHIPPING & LOGISTICS

Level 4 Diploma

UNIT 4 – THE MOVEMENT OF DANGEROUS GOODS

Question 1

- (a) **State FOUR** classes of dangerous goods transported by sea. (4 marks)
- (b) **Explain** how the use of the ship's 'Document of Compliance' will enhance the safe loading of dangerous goods on board. (16 marks)

Question 2

Discuss how the various elements contained in the 'IMDG code' enable the safe carriage of dangerous goods at sea. (20 marks)

Question 3

- (a) **Explain** the purpose of the 'Medical First Aid Guide' (MFAG) and 'Emergency Schedule' (EMS) should a leak of dangerous liquid chemical cargo occur on deck, while on voyage. (10 marks)
- (b) **Discuss FIVE** operational safety procedures that should be adopted while loading a type 1 chemical tanker in port. (10 marks)

Question 4

- (a) **Discuss** the possible consequences of a stowage error on board a type 1 chemical tanker carrying multiple grades of dangerous chemicals in bulk, from both a commercial and safety point of view. (10 marks)
- (b) **Explain** how the International Bulk Chemical Code (IBC) has improved safety at sea for chemical tankers. (10 marks)

Question 5

- (a) **State** the purpose of a Transport Emergency Card (Tremcard). (4 marks)
- (b) **Discuss TWO** types of information required to appear on the Tremcard. (6 marks)
- (c) **Explain** the operational use of the Multi-modal Dangerous Goods Form. (10 marks)