

**PD TEESPORT LIMITED**  
**HARBOUR MASTER'S OFFICE**

**THE SYLLABUS FOR  
WRITTEN EXAMINATION**

**IN RESPECT OF A**

**PILOT'S FOURTH CLASS LICENCE  
(TEES AND HARTLEPOOL)**

**AND**

**PILOTAGE EXEMPTION CERTIFICATE**  
**(Issued in accordance with Section 8 of  
The Pilotage Act 1987)**

## 1. INTRODUCTION

- (a) A Fourth Class Licence (Tees and Hartlepool) or a Pilotage Exemption Certificate will be issued to candidates who have completed the required number of passages and have satisfactorily completed both written and oral examinations to a standard acceptable to PD Teesport.
- (b) Examinations will consist of the following:
  - (i) Fourth Class Licence (Tees and Hartlepool) - Three separate written papers followed by an oral examination conducted by the Examination Committee.
  - (ii) Pilotage Exemption Certificate - Two separate written papers followed by an oral examination conducted by the Examination Committee.
- (c) The Examination Committee, chaired by the Harbour Master, will normally comprise of two Senior First Class Tees Bay Pilots and an independent member representing shipping interests within the Ports.
- (d) The date, time and place of the examinations will be determined by PD Teesport.
- (e) A pre-requirement of the examinations is that **ALL** candidates must visit the VTS Centre in company with the Deputy Harbour Master.

## 2. THE WRITTEN EXAMINATIONS

Candidates should note that:

- (a) strict examination conditions will apply while the written papers are being completed;
- (b) any notes, textbooks, programmable calculators, electronic organisers, mobile phones, radios or any other means of communication are not allowed during the examination.
- (c) all writing paper, pens, pencils, ruler and a blank chart of the area, (the latter to be used to answer some of the questions) will be provided by the Harbour Master's Secretary.

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## **WRITTEN PAPER NO.1**

**ALL** candidates will be required to have knowledge of:

### 1. **CHART WORK**

- (a) (i) The Ekofisk Oil Pipeline, CATS Gas Pipeline and Breagh Pipeline and the associated warnings shown on Admiralty Chart No.2567.
- (ii) Tees Bay Wind Farm.
- (iii) The spoil grounds.
- (iv) The anchorage areas in Tees and Hartlepool Bays, together with depths, nature of the sea bed and holding ground.
- (v) The VTS Area.
- (b) The location and title of:
  - (i) **ALL** berths within the Ports of Tees and Hartlepool.
  - (ii) All breakwaters at the entrances to the Ports of Tees and Hartlepool.

### 2. **SIGNALS**

Light and sound signals required by:

- (a) The Merchant Shipping (Distress Signals and Prevention of Collisions) Regulations 1996; and
- (b) The Harbour Byelaws issued by the Competent Harbour Authority.

### 3. **TIDES**

- (a) Tidal information contained in the PD Teesport Tide Tables.
- (b) Tidal flows within the jurisdiction of the Competent Harbour Authority.
- (c) The effect of weather on tidal heights and sea conditions.

### 4. **COMMUNICATION**

- (a) VHF channels used within the Ports of Tees and Hartlepool by "Tees VTS".
- (b) VHF channels used by vessels manoeuvring/berthing.
- (c) VHF channels to be used in an emergency, e.g., oil pollution.
- (d) Reporting Point "Romeo".

5. **PROCEDURES AND DECLARATIONS**

Procedures and declarations required by "Tees VTS".

- (a) For a vessel to approach/enter the Port of Tees or Hartlepool.
- (b) For a vessel to move/sail from a berth in the Port Tees or Hartlepool.

6. **GENERAL**

- (a) The Port Safety Requirements (PDT Notice to Mariners "Port Safety Requirements").
- (b) The "Harbour Surveillance Radar Lane Guidance System" used during periods of restricted visibility.
- (c) The contents of each part of the Harbour Byelaws.
- (d) The General Directions issued by the Competent Harbour Authority.
- (e) The Merchant Shipping (Vessel Traffic Monitoring and Reporting Requirements) Regulations 2004 and MSN 1831.
- (f) The Merchant Shipping (Port State Control) Regulations 2011.
- (g) IMO Regulation 23 - Pilot Transfer Arrangements.
- (h) The Boarding and Landing of Pilots by Pilot Boat: Code of Practice.
- (i) Marine Guidance Note MGN 50 (M) - Manning of Pilot Boats.
- (j) PD Teesport Notices to Mariners.
- (k) The Dangerous Goods in Harbour Areas Regulations 2016
- (l) PD Teesport Marine Emergency Plan
- (m) Admiralty Chart 2566 - Tees and Hartlepool Bays.
- (n) Admiralty Chart 2567 - Approaches to Tees Bay.
- (o) Admiralty Chart 8001 - Port Approach Guide.
- (p) North Sea (West) Pilot.
- (q) Admiralty List of Radio Signals Volume 6, Part 1, NP286(1).
- (r) Admiralty List of Lights and Fog Signals, NP74.
- (s) Passage Planning.

## **WRITTEN PAPER NO.2**

The examination for this paper will contain questions specific to those parts of the jurisdiction of the Competent Harbour Authority that lie within the Area for which the Licence or Exemption Certificate is required.

**ALL** candidates will be required to have knowledge of:

### 1. **COURSES AND DISTANCES**

True courses and distances run on each heading for a vessel inward bound within the Pilotage District.

### 2. **NAVIGABLE CHANNEL DIMENSIONS**

For each of the courses given in Section 1:

- (a) the minimum navigable channel width;
- (b) the working channel depth and areas of shoaling (to be taken from the latest edition of the PD Teesport Survey Chart available).

### 3. **DREDGED AND MAINTENANCE DEPTHS OF THE TEES AND HARTLEPOOL CHANNELS**

- (a) The dredged and maintenance depths to LAT.
- (b) The change points for the above depths.

### 4. **RIVER AND DOCK DIMENSIONS**

- (a) The principal turning areas for vessels in the Ports of Tees and Hartlepool and the relevant dimensions.
- (b) The dimensions of turning areas, docks, dry-docks and basins.

### 5. **RIVER CROSSINGS**

- (a) Bridges, cable crossings and tunnels.
- (b) The vertical clearance heights of bridges, cable crossings and container cranes.

### 6. **NAVIGATIONAL AIDS**

- (a) The lighthouses, buoys, beacons, traffic signals, warning signals and marks in terms of name, position, shape, topmark, colour, light characteristic and sound signal.

7. **VESSEL TRAFFIC MANAGEMENT SYSTEM**

- (a) In terms of dimensions and cargo, vessels which are subject to specific control.
- (b) The meanings of signals used by "Tees VTS" to denote vessel traffic control.

8. **BERTHS**

The berths for which the Licence or Exemption Certificate is required, giving:

- (a) dredged box lengths and widths;
- (b) quay, jetty or berth lengths;
- (c) dredged and actual depths, including the approaches;
- (d) position of mooring points;
- (e) obstructions.

(NB: A sketch, not necessarily to scale, may be used to show the above.)

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## **WRITTEN PAPER NO.3**

### **FOURTH CLASS LICENCE (TEES AND HARTLEPOOL) ONLY**

The examination for this paper will contain one question from each of the five sections shown below.

The required pass mark will be 70%.

#### 1. **LEGISLATION**

- (a) Working knowledge of Pilot Act
- (b) CHA - Define
- (c) Duties and Powers of CHA
- (d) Rights of a Pilot
- (e) Civil and Criminal Liability
- (f) Incident Reporting on the Tees
- (g) PD Teesport Pilotage Direction

#### **References**

- Pilotage Act/NI Pilotage and Shiphandling
- do -
- do -
- do -
- do -
- Pilot Manual
- do -

#### 2. **BOARDING AND TRANSFER**

- (a) Pilot Ladders and Boarding.
- (b) Pilot Transfer Arrangements

- SOLAS Chapter V - Reg 23 - Annex 21
- IMO Resolution A.667(16)

#### 3. **BRIDGE MANAGEMENT**

- (a) Master/Pilot Relationship
- (b) Navigating with a Pilot onboard
- (c) Bridge Team Responsibilities
- (d) Navigation Safety
- (e) Manoeuvring info onboard ships
- (f) Passage Plans

- Bridge Team Management
- do -
- do -
- Marine Guidance Note 72
- Marine Guidance Note 301
- Pilot Manual

#### 4. **SHIP HANDLING**

- (a) Theory
- (b) Pivot Point
- (c) Transverse Thrust
- (d) Anchors - Dredging/Swinging on
- (e) Interaction - Bank Effect/Squat
- (f) Thrusters
- (g) Propellers and Rudders
- (h) Twin Screw Work

- Ship Handlers Guide
- do -
- do -
- do -
- Marine Guidance Note 199
- Ship Handlers Guide
- Ship Handlers Guide
- do -
- do -

#### 5. **TUGS/TOWAGE**

- (a) Tug Use
- (b) General Towage Requirements
- (c) Tees Tug Fleet
- (d) Pilot/Tug Master Relationship
- (e) Tugs and Shiphandling

#### **References**

- Ship Handlers Guide
- Pilot Manual
- Pilot Station File
- NI Pilotage and Shiphandling
- Ship Handlers Guide
- NI Pilotage and Shiphandling