

Port of Barrow Island

Local Knowledge Certificate Examination

1 Introduction

Safe navigation within the Port of Barrow Island requires significant local knowledge of navigation, communications, pilotage and operational procedures. Relevant information can be found in the references listed below, and Port users are urged to review procedures regularly to ensure that their knowledge of the Port remains current.

1.1 Purpose

The purpose of this examination is to assess port users' knowledge regarding the expectations of the WA Department of Transport and Chevron Australia, regarding the various rules, regulations and requirements that apply to vessels transiting or operating within the port limits of the Port of Barrow Island.

1.2 Target audience

Every person whose duties include taking charge of the safe navigation of any vessel operating under a business arrangement with Chevron within the Port of Barrow Island must hold a valid Local Knowledge Certificate (LKC) issued by the Port of Barrow Island.

A valid LKC is also a prerequisite for the award of a Pilot Exemption Certificate (PEC) for Masters of vessels in which a PEC is required under the provisions of the Harbour Masters Port Operating Requirements as reproduced in the Barrow Island Port Information Manual (GOR-COP-0176), available on the Port website.

1.3 Instructions to applicants

Applicants should submit electronic copies of the documents detailed in the following table to the Marine Operations, at bwimco@chevron.com, or arrange for paper copies to be delivered to the Port Office.

Document	Table heading white
Completed examination	Examinations answers are to be hand-written. Only the answer section should be submitted. Applicants should ensure that they are attempting the current examination as found on the Port of Barrow Island website at: http://www.chevronaustralia.com/our-businesses/barrow-island/barrow-island-port
Certificate of Competency	Must be valid for area of operation
Certificate of Medical Fitness	Must specify that applicant is fit to perform the duties of a deck officer

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2 References

All information required in this exam is available in the following documents and on the relevant navigation charts.

Ref.no.	Description	Document ID
1	Barrow Island Port Information Manual	GOR-COP-0176
2	ABU – Port of Barrow Island Cyclone Procedure	ABU-COP-0017
3	Shipping and Pilotage Act 1967	
4	Shipping and Pilotage (Ports and Harbours) Regulations 1966	
5	Submarine Cables and Pipeline Act 1963	
6	Petroleum Submerged Lands Act 1982	
7	AUS charts 65, 67, 742	
8	Port of Barrow Island website www.australia.chevron.com/our-businesses/barrow-island/barrow-island-port	

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Applicant details	
Applicant name:	
Contact email:	
Date examination submitted:	
Vessel name:	
Vessel LOA:	
Vessel GRT:	
Position held onboard:	
Certificate of Competency (CoC) type:	
CoC issuing body:	
CoC number:	
CoC expiry date:	
Certificate of Medical Fitness expiry date:	

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All answers are to be hand-written

1. Under which Western Australian Act is the Port of Barrow Island a declared State owned port?

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2. As a State owned port, the Harbour Master is an employee of the Western Australia Department of Transport. Within the Port of Barrow Island, the Harbour Master is represented locally by the Chevron Marine Superintendent.

The Harbour Master's Port Operating Requirements are contained within, and are to be read in conjunction with, which Port of Barrow Island document (available on the port website) to provide guidance to port users?

(Note that these documents provide guidance that is additional to any Australian and/or international legislation and conventions relevant to the safe operation of vessels)

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3. Any incident, near miss or relevant events are to be reported to the Harbour Master through whom, and within what maximum timeframe?

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4. Before entering port limits, all vessels' Masters are to advise the Harbour Master through the Marine Superintendent of any condition that is affecting or may affect the seaworthiness of the vessel.

TRUE / FALSE

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5. As stipulated in the *Shipping and Pilotage (Ports and Harbours) Regulations 1966*, all Australian registered commercial and fishing vessels and all private pleasure vessels operating within Port of Barrow Island port limits must have onboard a licenced marine pilot, or a Master holding a valid Pilotage Exemption Certificate (PEC) for the Port of Barrow Island unless the vessel is less than what length overall (LOA)?

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6. The port limits are defined by an arc centred on position 20° 46.8'S 115° 27.9'E. What is the radius of that arc in nautical miles?
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7. The shoreline within port limits extends between which geographic extremities in the north and south (as labelled on AUS742)?

North	Cape _____
South	A point midway between _____ Point and _____ Point

8. How big is the restricted zone around the Conventional Buoy Mooring (CBM), and when is it in force?
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9. a. When are the exclusion zones at the Gorgon Marine Terminal (GMT) enforced?

- b. Upon what pieces of infrastructure are the zones centered, and how big is the zone?
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10. How far above the seabed can the Domestic Gas (Domgas) pipeline protrude?

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11. Gorgon Plant General Alarm

- a. Describe the siren pattern and duration for a “General Alarm”

- b. Describe the siren pattern and duration for the “All Clear”

- c. What actions are masters of vessels to ensure their personnel take in the event of a General Alarm?

12. What are the spring tidal ranges (range between MHWS and MLWS) at:

- a. Wapet Landing

- b. CBM

13. In which direction do flood tidal streams tend to flow in vicinity of the Materials Offloading Facility (MOF), and what speed can they commonly reach?

14. Where can Marine Notices issued by the Marine Superintendent be found?

15. For the purposes of International Convention for the Prevention of Pollution from Ships (MARPOL), the baseline in relation to the term “nearest land” extends seaward from which side of Barrow Island?

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16. What four important measures are to be taken in order to protect flora and fauna within the Port (as listed in the Barrow Island Port Information Manual)?

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17. Within what timeframe should notification be provided by vessels due to arrival in Port on a domestic voyage?

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18. Among other information, what details should be provided as part of a Domestic Voyage Notification at the following specific points (as detailed in the Port Information Manual)?

Notification point	Detail to be provided
a.	Name of vessel
d.	
f.	
j.	
l.	
m.	
o.	

19. Detail the marine VHF radio channels used for operations in the Port of Barrow Island, and detail their uses.

Channel	Channel use within the Port of Barrow Island
16	Marine distress, safety and calling

20. In the case of emergency, who should be contacted ashore, and what are the point of contact details

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21. What details are vessels not engaged in pilotage operations to provide to be broadcast on VHF10 when operating within the Port?

Notification point	Detail to be provided
Inbound	
Outbound	

22. Vessels transitting within the Port are to inform the Port of Barrow users of their intended route and activities on VHF 10 prior to commencing the transit as an “All Ships and Port of Barrow” broadcast.

As well as reporting when they depart/arrive at a berth or anchorage, what “other reporting” should they perform (as listed in the Port Information Manual)?

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•
•
•
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23. Detail the maximum transit/berthing parameters that are generally enforced for vessels not engaged in pilotage operations when entering/departing the MOF:

Parameter	Maximum (absent specific relaxation from Port Captain)
Tidal stream	
Wind speed	

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24. Apart from specified vessels performing certain activities at Wapet Landing, what general minimum UKC should be maintained by vessels at all times?

•	
•	(whichever is _____)

25. Are vessels permitted to conduct washdowns within Port limits?

26. Around which Port of Barrow infrastructure do the Security Regulated Areas exist

•	
•	

27. How far does the Waterside Security Zone extend either side of the Gorgon Marine Terminal jetty?

28. Between what dates does the tropical cyclone season officially extend at Barrow Island?

29. Complete the following table detailing the Port of Barrow Island Cyclone Response Stages:

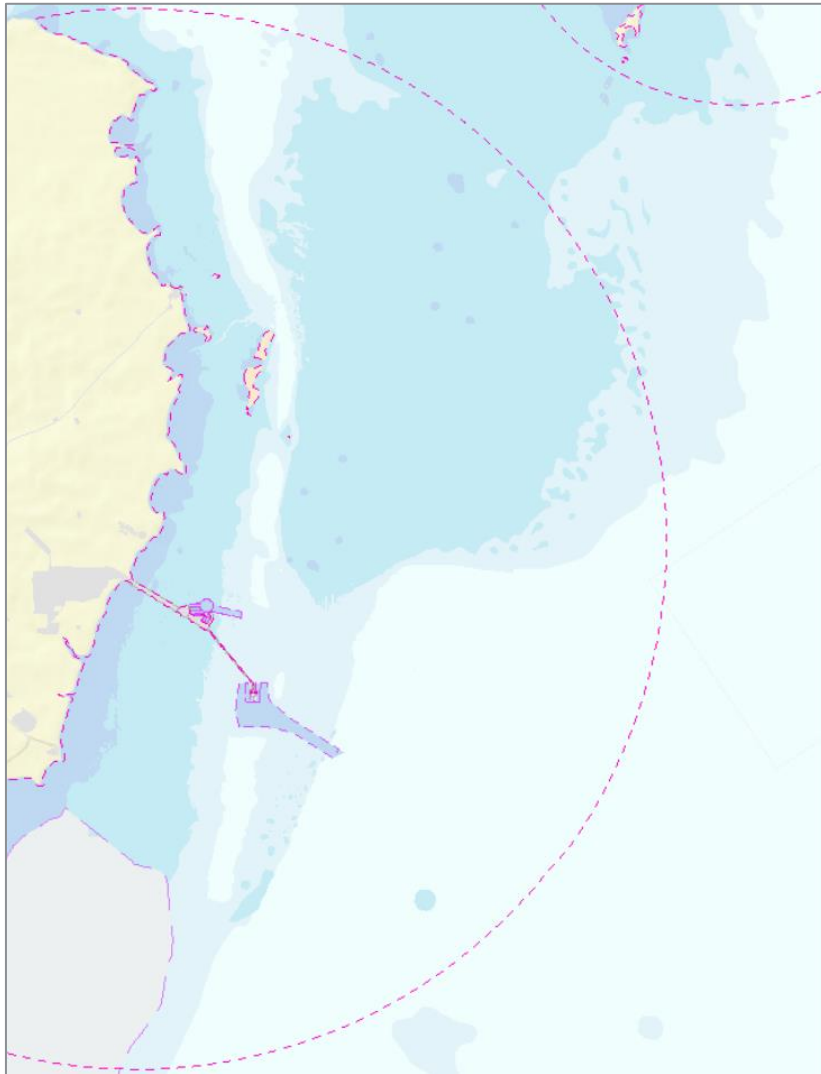
Stage	Key Action	Description
1	Monitor	Tropical cyclone or tropical low (System) has formed within 800nm
2		System approaches or develops within _____nm and is tracking towards Port, with potential for impact
3		System approaches or develops within _____nm and/or gale force winds are forecast to affect the Port within _____ hours
4		System approaches or develops within _____nm and/or gale force winds expected to affect the Port within _____ hours
5	Open Port	Cyclone or threat of cyclone has passed – damage assessment and recovery

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30. Label the following on the chart:

Inner pilot boarding point	CBM pipeline and CBM area
B1 anchorage and B2 anchorage area	Domgas pipeline
Recommended route from MOF to port limits	Twickenham and Double Island platforms
Recommended route from GMT to port limits	Wapet Landing

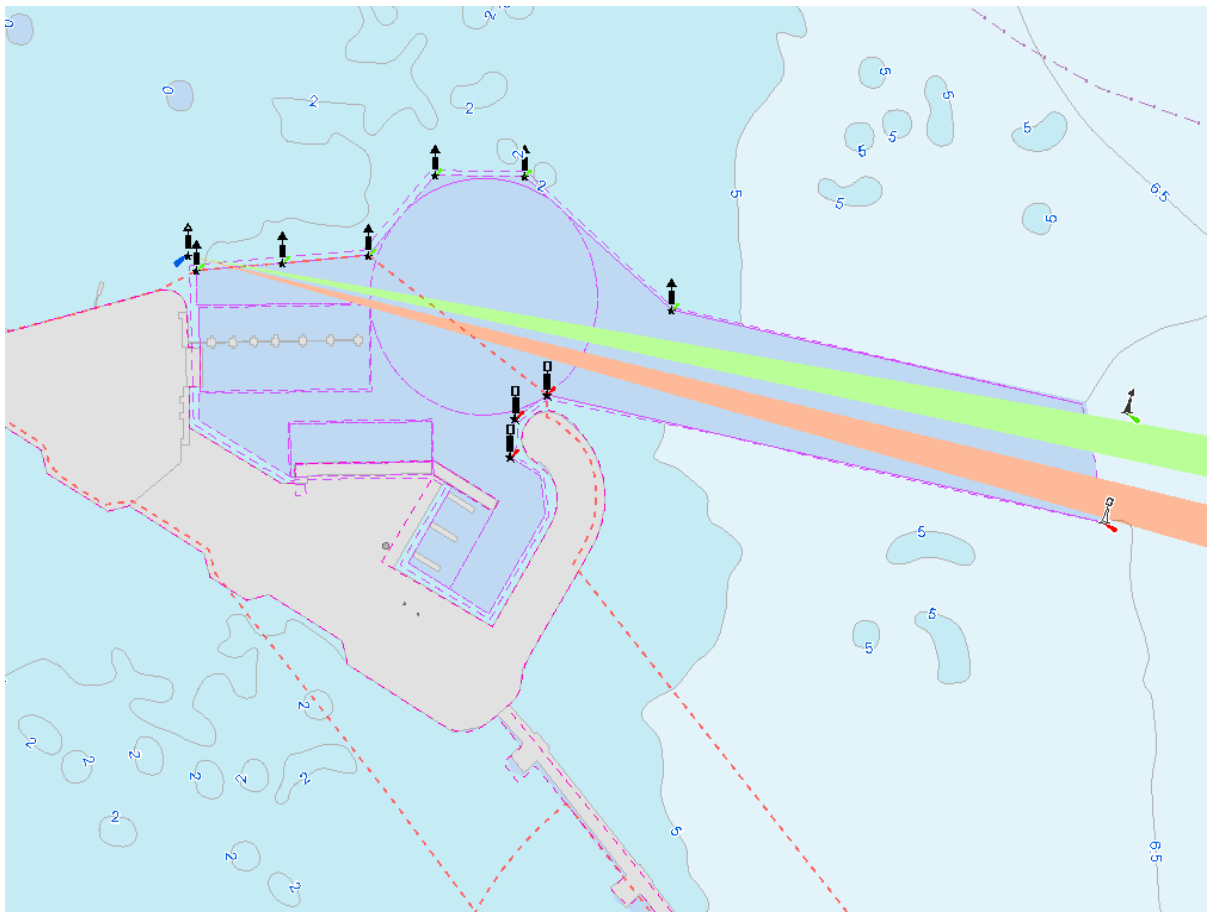


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31. Label the following Materials Offloading Facility (MOF) infrastructure on the chart:

Heavy Lift Facility (HLF)	RORO berth
Module Carrier Berth (MCB)	Temporary Small Craft Landing (TSCL)
MOF Channel and Basin declared depths	HLF declared depth
RoRo and MCB berth declared depths	



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32. Label the following on the chart:

Wave Rider Buoys	Domgas Pipeline
LNG Channel Lead Lights	GMT Berth Pocket Depths
Declared GMT Channel Depth	Recommended Track Directions °

