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## Overview

This standard is about ensuring the jacked up barge remains stable and capable of supporting the operational task(s) for which it has been procured (e.g. construction, salvage, surveying). It includes assessing risks posed by changing environmental conditions and taking the necessary decisions to move or evacuate the barge.

### Target Group

This standard is relevant to bargemasters with overall responsibility for the jack up barge while it is at sea.

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## Performance criteria

### *You must be able to:*

1. visually and physically check using gauges, markers and other indicators in line with the jack up barge operations manual to ensure the leg loads, leg penetrations and jack pressures are within operational tolerances
2. visually and physically check using gauges, markers and other indicators in line with the jack up barge operations manual to ensure the jack up barge inclination is within operational tolerances
3. observe using gauges, markers and other indicators in line with the jack up barge operations manual to ensure seabed scour and its impact on the jack up barge stability is within operational tolerances
4. take action in line with the jack up barge operations manual if the jack up barge is operating outside of the tolerances outlined in the jack up barge operations manual creating a risk of instability
5. carry out an assessment calculation of the impact of transferring and moving loads on the deck of the jack up barge and its effect on the jack up barge stability
6. read, interpret and assess the prevailing and forecast environmental conditions - including wind, sea state and weather - to assess the impact on stability of the jack up barge and whether the calculated effect is within the tolerances stated in the jack up barge operations manual
7. give instruction to terminate elevated operations and place the jack up barge in the elevated survival mode when weather forecasts indicate that the approaching weather is above the safe operational limits set out in the jack up barge operations manual and it is calculated that there is not enough time to move to the recorded safe haven, shelter or port.
8. give instruction to implement post storm procedures when restoring the jack up barge to the operational air gap
9. give instruction to move to the agreed safe haven / shelter as recorded in the passage plan or method statement when weather forecasts indicate that the approaching weather is above the safe operational limits set out in the jack up barge operations manual and it is calculated that there is enough time to move to the recorded safe haven, shelter or port.
10. co-operate with tug master to move the jack up barge to shelter

11. give instruction and command the evacuation of crew from the jack up barge when the survival of persons aboard is deemed to be at risk
12. monitor all jack up barge systems used through visual checks of gauges / markers or other visual indicators on the jack up barge when at the operational site as set out in the jack up barge operations manual
13. operate as set out in the jack up barge operations manual all jack up barge systems used when at the operational site
14. monitor all ancillary equipment used through visual checks of gauges / markers or other visual indicators on the jack up barge when at the operational site as set out in the jack up barge operations manual
15. operate as set out in the jack up barge operations manual all ancillary equipment used when at the operational site
16. complete logs and reports as required by the company's procedures and the jack up barge operations manual and the client
17. deliver health and safety induction to all visitors to the jack up barge
18. monitor all visitors to the jack up barge ensuring compliance with health and safety instructions
19. follow and implement company procedures and all relevant legal, safety and operating requirements relating to maintaining the jack up barge stability as stated by local and national law, international convention and the jack up barge operations manual

## Knowledge and understanding

*You need to know and understand:*

1. how to calculate the elevated weight of the jack up barge and its centre of gravity
2. how to measure leg loads and jack pressures and what varying measures indicate about jack up barge stability
3. the causes of seabed scour and its effects on jack up barge stability
4. the use of jack up barge systems to maintain stability
5. how to calculate the effect on elevated weight and centre of gravity of lifting and moving loads on the deck
6. factors affecting draft, trim and stability of the jack up barge
7. factors affecting the static and dynamic stability of the jack up barge when afloat
8. the difference between unrestricted and restricted weather operations
9. the maximum environmental conditions in which the jack up barge can operate
10. the requirements to achieve elevated survival mode and required reserve leg length
11. the maximum environmental conditions in which the jack up barge can remain in the elevated survival mode in its location
12. the impact of environmental conditions on the structural integrity of the jack up barge while afloat
13. when to terminate elevated operations and place the jack up barge in the elevated survival mode when weather forecasts indicate that the approaching weather is above the safe operational limits set out in the jack up barge operations manual and it is calculated that there is not enough time to move to the recorded safe haven, shelter or port.
14. when to move to the agreed safe haven / shelter as recorded in the passage plan or method statement when weather forecasts indicate that the approaching weather is above the safe operational limits set out in the jack up barge operations manual and it is calculated that there is enough time to move to the recorded safe haven, shelter or port.
15. when the survival of persons aboard is at risk and to give instruction and command the evacuation of crew from the jack up barge

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<b>Original URN</b>	MSAE24
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