

**IMO Resolution A.891(21)**  
**Ballast Control Operator (Table 6.4)**

*Record of Completion of Practical Assessments*

Assessment No.	Competence	Criteria	Check Off
BCO 1	Plan and ensure safe ballasting and deballasting operations and accounting of changes in deck loads	Ballasting and deballasting operations planned and executed in accordance with established procedures  Changes in deck loads are accounted for in accordance with established procedures	
BCO 2	Operational Control trim, stability and stress	Stability and stress are maintained within established limits at all times	
BCO 3	Respond to emergencies	Established procedures are followed during drills and emergencies  Communications are clear and effective	
BCO 4	Prevention of pollution	Follows pollution prevention procedures established by international convention, national requirements and company policy.	

Specification of Minimum Standard of Competence for MODU License

*IMO Resolution A.891(21)  
Ballast Control Operator – Table 6.4*

**ASSESSMENT NO:** BCO-1

**FUNCTION:** Ballasting

**COMPETENCE:**

Plan and ensure safe ballasting and deballasting operations and accounting of changes in deck loads.

**KNOWLEDGE, UNDERSTANDING & PROFICIENCY:**

Knowledge of and ability to apply relevant international and national standards concerning stability. Use of loading stability information as may be contained in or derived from stability and trim diagrams, operations manuals, and/or computer-based loading and stability programs

**METHOD FOR DEMONSTRATING COMPETENCE:**

Examination and assessment of evidence from one or more of the following (check all that apply):

- in-service experience
- direct observation
- formal instruction
- simulator training; or
- examination

**CRITERIA FOR EVALUATING COMPETENCE:**

Ballasting and deballasting operations planned and executed in accordance with established procedures. Changes in deck loads are accounted for in accordance with established procedures

**COMPETENCY ESTABLISHED:**

An Offshore Installation Manager or approved instructor, who signs below as the Assessor, attests that the mariner has met the requirements to qualify for the Function named above.

\_\_\_\_\_  
Mariner

\_\_\_\_\_  
Date

\_\_\_\_\_  
Assessor (*Signature & Printed Name*)

\_\_\_\_\_  
License Type

\_\_\_\_\_  
License No.

\_\_\_\_\_  
Identify Vessel or Training Course

\_\_\_\_\_  
(*Course Name/Institution/Date Attended*)

**Specification of Minimum Standard of Competence for MODU License**

---

**IMO Resolution A.891(21)  
Ballast Control Operator – Table 6.4**

**ASSESSMENT NO.** BCO 2

**FUNCTION:** Operational Control

**COMPETENCE:** Trim, Stability and Stress

**KNOWLEDGE, UNDERSTANDING & PROFICIENCY:**

Understanding of fundamental principles of ship construction and the theories and factors affecting trim and stability and the measures necessary to preserve trim and stability.

1. Criteria for MOUs, environmental limits and criteria for survival conditions.
2. Understanding the inclining experiment report and its use
3. Use of daily loading calculations
4. Dynamical Stability. Effect of mooring systems and mooring line failure

**METHOD FOR DEMONSTRATING COMPETENCE:**

Examination and assessment of evidence from one or more of the following (check all that apply):

- in-service experience
- direct observation
- formal instruction
- simulator training; or
- examination

**CRITERIA FOR EVALUATING COMPETENCE:**

Stability and stress are maintained within established limits at all times

**COMPETENCY ESTABLISHED:**

An Offshore Installation Manager or approved instructor, who signs below as the Assessor, attests that the mariner has met the requirements to qualify for the Function named above.

\_\_\_\_\_  
Mariner

\_\_\_\_\_  
Date

\_\_\_\_\_  
Assessor (*Signature & Printed Name*)

\_\_\_\_\_  
License Type

\_\_\_\_\_  
License No.

\_\_\_\_\_  
Identify Vessel or Training Course

\_\_\_\_\_  
(*Course Name/Institution/Date Attended*)

**Specification of Minimum Standard of Competence for MODU License**

---

**IMO Resolution A.891(21)  
Ballast Control Operator – Table 6.4**

**ASSESSMENT NO.** BCO 3

**FUNCTION:** Emergency Response

**COMPETENCE:** Respond to Emergencies

**KNOWLEDGE, UNDERSTANDING & PROFICIENCY:**

1. emergency procedures
2. effect on trim and stability of flooding due to damage, fire fighting, loss of buoyancy or other reasons and countermeasures to be taken
3. effectively communicate stability-related information

**METHOD FOR DEMONSTRATING COMPETENCE:**

Examination and assessment of evidence from one or more of the following (check all that apply):

- in-service experience
- direct observation
- formal instruction
- simulator training; or
- examination

**CRITERIA FOR EVALUATING COMPETENCE:**

Established procedures are followed during drills and emergencies. Communications are clear and effective.

**COMPETENCY ESTABLISHED:**

An Offshore Installation Manager or approved instructor, who signs below as the Assessor, attests that the mariner has met the requirements to qualify for the Function named above.

\_\_\_\_\_  
Mariner

\_\_\_\_\_  
Date

\_\_\_\_\_  
Assessor (*Signature & Printed Name*)

\_\_\_\_\_  
License Type

\_\_\_\_\_  
License No.

\_\_\_\_\_  
Identify Vessel or Training Course

\_\_\_\_\_  
(*Course Name/Institution/Date Attended*)

**Specification of Minimum Standard of Competence for MODU License**

---

**IMO Resolution A.891(21)  
Ballast Control Operator – Table 6.4**

**ASSESSMENT NO.** BCO 4

**FUNCTION:** Pollution Prevention

**COMPETENCE:** Prevention of Pollution

**KNOWLEDGE, UNDERSTANDING & PROFICIENCY:**

Methods and aids to prevent pollution of the environment.

Knowledge of relevant international and national requirements, regard should be paid especially to:

1. certificates and other documents required by international conventions or national law, how they may be obtained, and their period of validity
2. responsibilities under relevant international agreements

**METHOD FOR DEMONSTRATING COMPETENCE:**

Examination and assessment of evidence from one or more of the following (check all that apply):

- in-service experience
- direct observation
- formal instruction
- simulator training; or
- examination

**CRITERIA FOR EVALUATING COMPETENCE:**

Follows pollution prevention procedures established by international convention, national requirements and company policy.

**COMPETENCY ESTABLISHED:**

An Offshore Installation Manager or approved instructor, who signs below as the Assessor, attests that the mariner has met the requirements to qualify for the Function named above.

\_\_\_\_\_  
Mariner

\_\_\_\_\_  
Date

\_\_\_\_\_  
Assessor (*Signature & Printed Name*)

\_\_\_\_\_  
License Type

\_\_\_\_\_  
License No.

\_\_\_\_\_  
Identify Vessel or Training Course

\_\_\_\_\_  
(*Course Name/Institution/Date Attended*)