

*Training on the Human Element: STCW and MLC for
Enlargement Countries*

Enhance your knowledge on the STCW Convention and Code Examination & Assessment

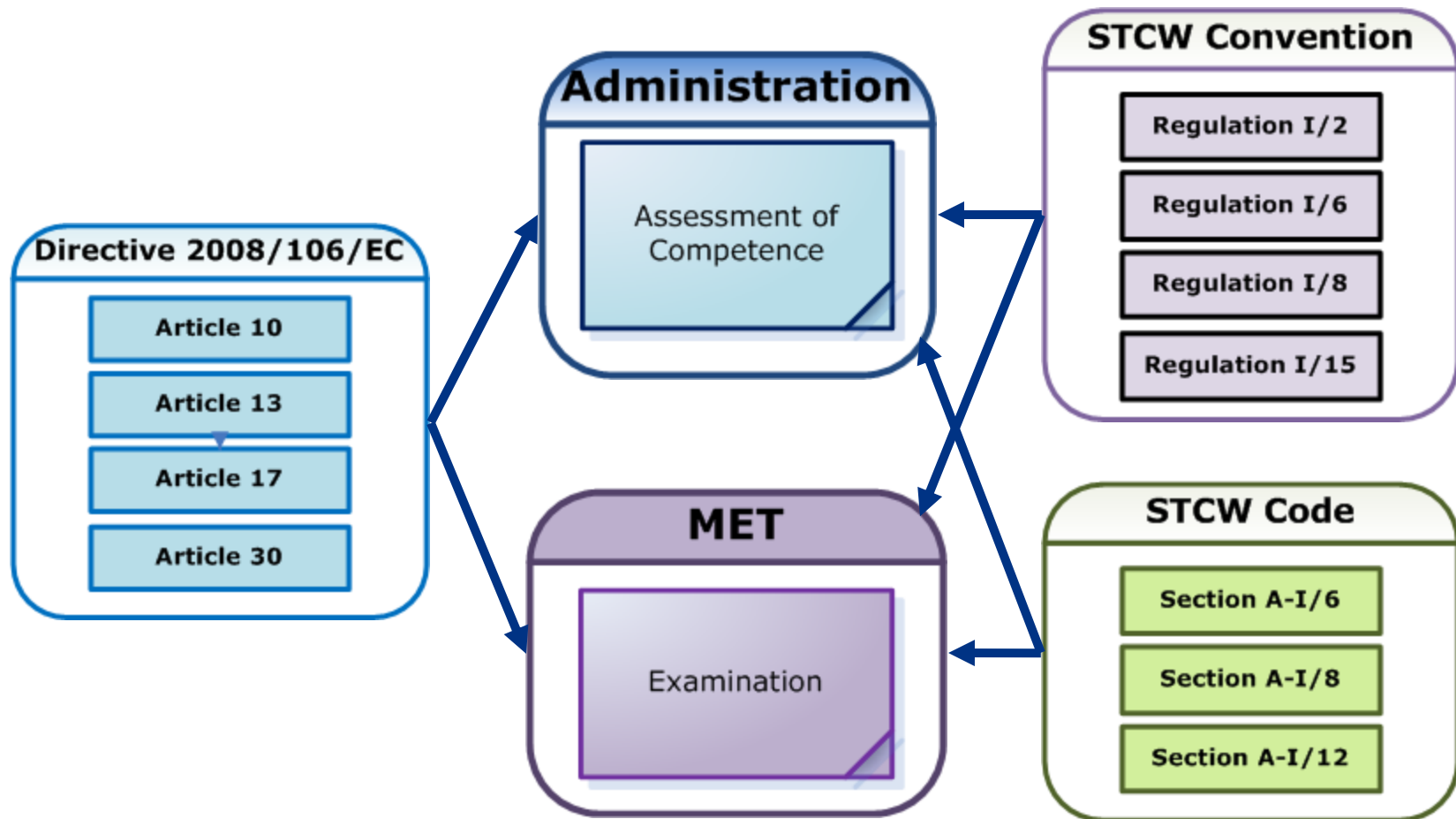
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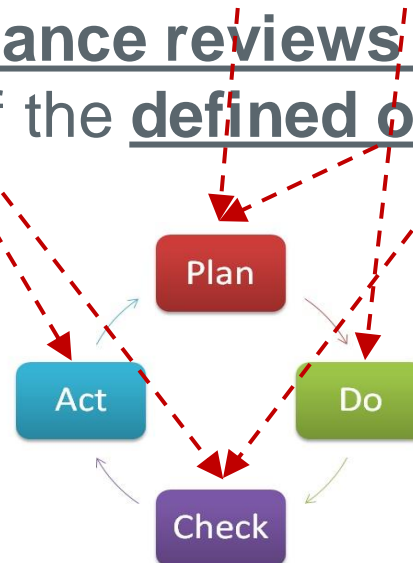
Lisbon, Portugal / 9 – 10 July 2019





The field of application of the quality standards shall cover the administration of the certification system, all training courses and programmes, examinations and assessments carried out by or under the authority of a Party and the qualifications and experience required of instructors and assessors, ...

... having regard to the policies, systems, controls and internal quality assurance reviews established to ensure achievement of the defined objectives.



- (1) Certificates for masters, officers or ratings **shall be issued to those candidates who**, to the satisfaction of the Administration, **meet the requirements for service, age, medical fitness, training, qualification** and **examinations** in accordance with the appropriate provisions of the annex to the Convention

- Candidates for certification shall provide satisfactory proof ...that they meet the standards of competence (Reg. I/2)
- Assessment is administered, supervised and monitored in accordance with Section A-I/6 (Reg. I/6)
- Every candidate for certification shall meet the standard of competence specified in section A-II/1, A-III/1... (Reg. II/1, III/1 ...)

- All training and assessment of seafarers is structured in accordance with written programmes, including methods and media of delivery, procedures and material as are necessary to achieve the prescribed standard of competence (Section A-I/6)
- Parties to ensure that levels of knowledge, understanding and skills appropriate to the examinations and assessments are identified (Section A-I/8)
- If assessment with a simulator ... performance criteria identified and explicit, candidates briefed, assessment in normal operating conditions, scoring validated, tasks are carried out safely (Section A-I/12)

Table A-II/1 – OOW

Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
Plan and conduct a passage and determine position	<p><i>Celestial navigation</i></p> <p>Ability to use celestial bodies to determine the ship's position</p>	<p><u>Examination</u> and <u>assessment of evidence obtained from</u> one or more of the following:</p> <p>.1 approved in-service <u>experience</u></p> <p>.2 approved training ship <u>experience</u></p> <p>.3 approved <u>simulator</u> training, where appropriate</p> <p>.4 approved laboratory <u>equipment</u> training</p> <p><u>using</u> chart catalogues, charts, nautical <u>publications</u>, radio navigational warnings, sextant, azimuth mirror,</p>	<p>The information obtained from nautical charts and publications is relevant, interpreted correctly and properly applied. All potential navigational hazards are accurately identified</p> <p>The primary method of fixing the ship's position is the most appropriate to the prevailing circumstances and conditions</p> <p>The position is determined within the limits of acceptable instrument/system errors</p>
	<p><i>Terrestrial and coastal navigation</i></p> <p>Ability to determine the ship's position by use of:</p> <p>.1 landmarks</p> <p>.2 aids to navigation, including lighthouses, beacons and buoys</p> <p>.3 dead reckoning, taking into account winds, tides, currents and estimated speed</p>		

Table A-III/1 – OEW

Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
Prevent, control and fight fires on board	<p><i>Fire prevention and fire-fighting appliances</i></p> <p>Ability to organize fire drills</p> <p>Knowledge of classes and chemistry of fire</p> <p>Knowledge of fire-fighting systems</p> <p>Knowledge of action to be taken in the event of fire, including fires involving oil systems</p>	<p><u>Assessment of evidence obtained from approved fire-fighting training and experience</u> as set out in section A-VI/3</p>	<p>The type and scale of the problem is promptly identified and initial actions conform with the emergency procedure and contingency plans for the ship</p> <p>Evacuation, emergency shutdown and isolation</p> <p>Procedures are appropriate to the nature of the emergency and are implemented promptly</p> <p>The order of priority and the levels and time-scales of making reports and informing personnel on board are relevant to the nature of the emergency and reflect the urgency of the problem</p>

Table A-III/5 – AB Eng

Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
Contribute to bilge and ballast operations	<p>Knowledge of the safe function, operation and maintenance of the bilge and ballast systems, including:</p> <p>.1 reporting incidents associated with transfer operations</p> <p>.2 ability to correctly measure and report tank levels</p>	<p><u>Assessment of evidence obtained from</u> one or more of the following:</p> <p>.1 approved in-service <u>experience</u></p> <p>.2 <u>practical training</u></p> <p>.3 <u>examination</u></p> <p>.4 approved training ship <u>experience</u></p> <p>Assessment of evidence obtained from <u>practical demonstration</u></p>	<p>Operations and maintenance are carried out in accordance with established safety practices and equipment operating instructions and pollution of the marine environment is avoided</p> <p>Communications within the operator's area of responsibility are consistently successful</p>

16 Evaluation of competence is a process of:

- **collecting** sufficient, valid and reliable **evidence** about the candidate's KUPs **to accomplish tasks, duties and responsibilities**
- **judging** such **evidence** against **defined criteria**

17 The arrangements for evaluating competence should be designed to take account of different methods of assessment which can provide different types of evidence about candidates' competence, e.g.:

- direct observation of work activities (including seagoing service)
- skills, proficiency, competency tests
- projects and assignments
- evidence from previous experience (including prior learning)
- **written, oral and computer-based questioning techniques**

18 One or more of the first four methods [...] should be used to provide evidence of ability, **in addition to** appropriate questioning techniques to provide evidence of supporting knowledge and understanding

Assessment of competence (mainly by the Administration)

- evaluate whether the **candidate** for certification has **achieved** the required **standard of competence**

Examination (mainly by MET Institutions)

- evaluate whether the **student** has **achieved** the **education and training objectives / outcomes** (through a structured series of questions, problems, requiring a degree of analysis, allowing objective measuring of the KUPs)

Final assessment (mainly by the Administration)

- **candidates** are required to **sit an exam** or a **series of exams** on a (limited) number of subjects; computer-based or written, oral and occasionally using a simulator

Continuous assessment (mainly by MET Institutions)

- **progression** of **candidates** is **monitored** through a **variety of examinations** with different intensity, theoretical and practical, including using simulators, during the education and training programme, to evaluate the achievement of the knowledge and skill level required

Administration

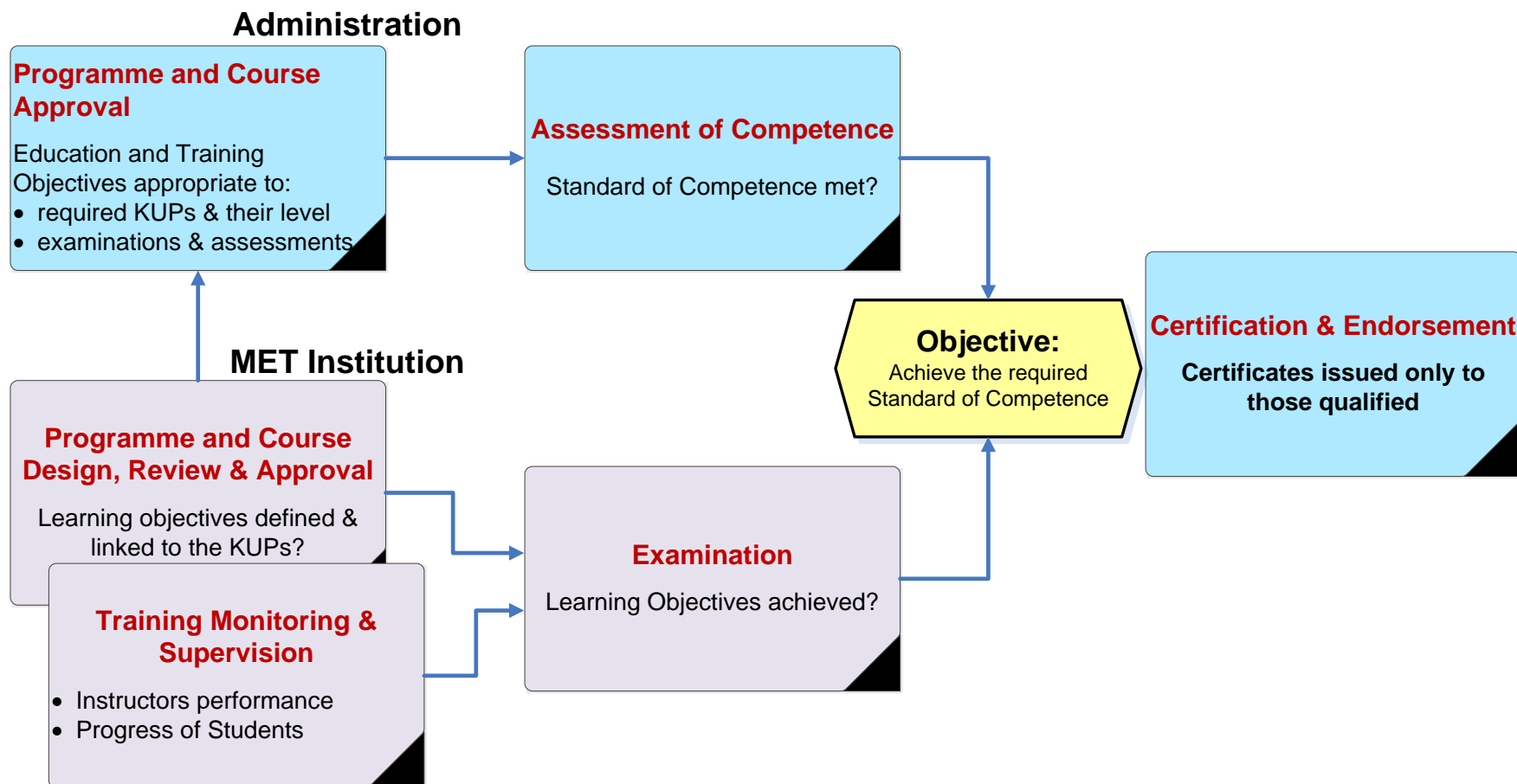
- assessment of competence: for **certification** (initial and upgrading), **updating** and **revalidation**

MET institutions

- assessment of competence: **mainly for operational level** and for **ancillary courses** (chapters IV, V and VI)

... and any combination of the above

Examination and Assessment Configurations



Issues to be addressed by the examination and assessment system:

- Is it structured and covering all competences?
- Is it at the required level? Are criteria defined?
- Is it using methods and criteria for demonstrating and for evaluating competence as prescribed in the STCW?
- If using simulators: clear procedures established? performance criteria defined? consistent scenarios? Is the objective to carry out the tasks safely?
- Single final assessment by the Administration: is it compliant with the Convention requirements?

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