

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

Enhance your knowledge on the STCW Convention and Code

Programme and Course Approval & Monitoring
of Training and Assessment

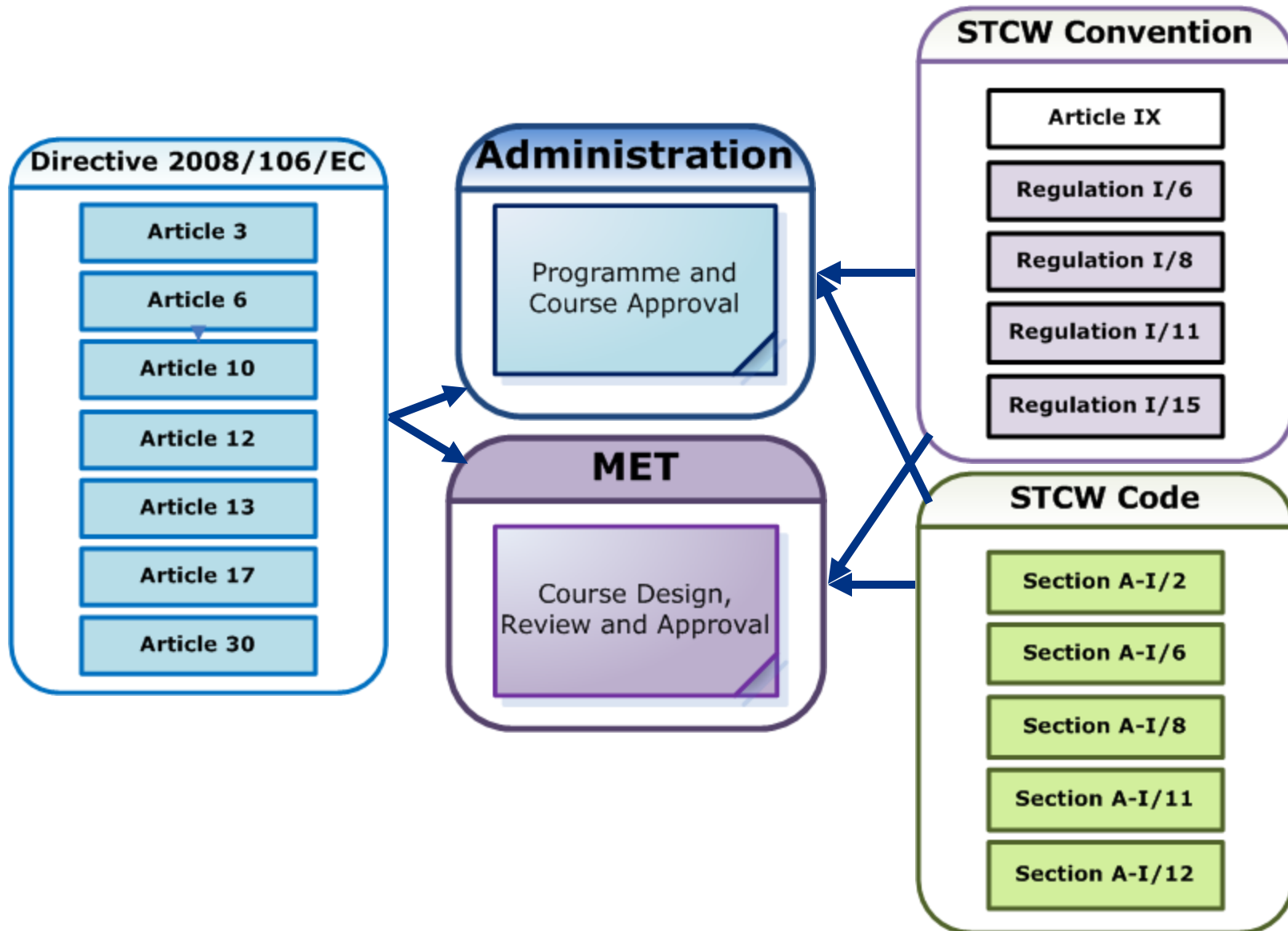
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1 Each Party shall ensure that all training and assessment of seafarers for certification under the Convention is:

.1 structured in accordance with written programmes, including such

- **methods** and **media of delivery**

- **procedures**, and

- **course material**

as are necessary to achieve the prescribed standard of competence

.2 conducted, monitored, evaluated and supported by persons qualified in accordance with ...

- 1 Each Party shall ensure that
 - the **education and training objectives** and related standards of competence to be achieved are **clearly defined**
 - the levels of **knowledge, understanding and skills appropriate to the examinations and assessments** required under the Convention are **identified**

■ **Learning Outcome vs. Learning Objective**

- **Learning outcome** describes the **overall purpose or goal** of the participant in an educational activity. Courses with **measurable** learning outcomes.

(student-focused):

- *“the knowledge and skills the students should acquire by the end of the course”*
- *“At the end of the course, the student shall be able to ...”*

- **Learning Objective** - used to organize specific topics or individual learning activities to achieve the overall learning outcome

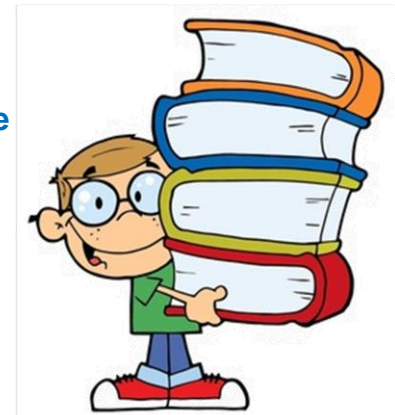
- **Written programme** = “a compilation of **detailed learning objectives or training outcomes** covering each area of competence required for the qualification concerned” (W.S.G. Morrison)
- **Standard of Competence** (Section A-I/1.1) = **level of proficiency** to be achieved for the proper performance of functions on board ship in accordance with the internationally agreed criteria [...] and incorporating prescribed standards or **levels of knowledge, understanding and demonstrated skills**

Course design (example)

Table A-II/1

Competence	Knowledge, understanding and proficiency	Criteria for evaluating competence
Maintain a safe navigational watch	Watchkeeping Thorough knowledge of the content, application and intent of the International Regulations for Preventing Collisions at Sea, 1972, as amended 	Lights, shapes and sound signals conform with the requirements contained in the International Regulations for Preventing Collisions at Sea, 1972, as amended, and are correctly recognized

- Course package**
- Course outline
 - Syllabus
 - Instructor's Manual
 - Student's Manual
 - ...



COLREG Course

Define learning objectives/
training outcomes

What the students shall be able to do?

Required Performance:

1.1 The Content, Application and Intent of the International Regulations for Preventing Collisions at Sea, 1972, as amended (100 hours)

- explains the application of the rules as set out in Rule 1
- defines the term 'traffic separation scheme'
- describes the responsibility to comply with the rules as set out in Rule 2
- cites examples of precautions which may be required by the ordinary practice of seamen or by the special circumstances of the case
- gives examples of circumstances which may make a departure from the rules necessary

How do we
assess their
achievement ?

What do we need to teach them
to pass the assessment?

Test

Question 1
Question 2
...
Question n



Learning objectives

1.2 MAINTAIN A SAFE NAVIGATIONAL WATCH

(100 hours)

The content, application and intent of International Regulations for Preventing Collisions at Sea, 1972 as amended

A large proportion of the time allocated to this subject will be used for training in the recognition of lights and shapes, using rule-of-the-road models or magnetic boards. Trainees should be able to recognize the type of vessel, aspect and any special significance of the signals and, given that the compass bearing is not appreciably changing, state what action they would take, if any, and what signals should be made. They should also be able to state the lights or shapes to be displayed by various types of vessel in any circumstances and describe fully the characteristics of the lights. Question-and-answer sessions should include the use of sound signals and actions to take in fog, bearing in mind that the use of radar for collision avoidance is also dealt with in simulator-based training.

It is important that trainees at this level recognize circumstances in which they should call the master and some situations should be presented to them in which calling the master is one of the proper actions to take. It should be impressed upon them that until such time as the master formally takes over from them they remain in

4 Each Party shall compare the standards of competence ... required ... **for certificates issued before 1 January 2017** with those specified for the appropriate certificate in part A of the STCW Code, ... determine the need for ... appropriate refresher and updating training or assessment

5 The Party shall ... **formulate** a structure of refresher and updating courses as provided for in section A-I/11 of the STCW Code

Gap analysis (example)

Table A-II/1 in force prior to 1 January 2012

Competence	Knowledge, understanding and proficiency
Maintain a safe navigational watch	<p>Watchkeeping</p> <p>Thorough knowledge of the content, application and intent of the International Regulations for Preventing Collisions at Sea, 1972, as amended</p> <p>.....</p> <p>Gap</p>

Table A-II/1 in force after 1 January 2012

Competence	Knowledge, understanding and proficiency
Maintain a safe navigational watch	<p>Watchkeeping</p> <p>Thorough knowledge of the content, application and intent of the International Regulations for Preventing Collisions at Sea, 1972, as amended</p> <p>.....</p> <p>The use of information from navigational equipment for maintaining a safe navigational watch</p> <p>Knowledge of blind pilotage techniques</p> <p>The use of reporting in accordance with the General Principles for Ship Reporting Systems and with VTS procedures</p> <p>Bridge resource management</p>

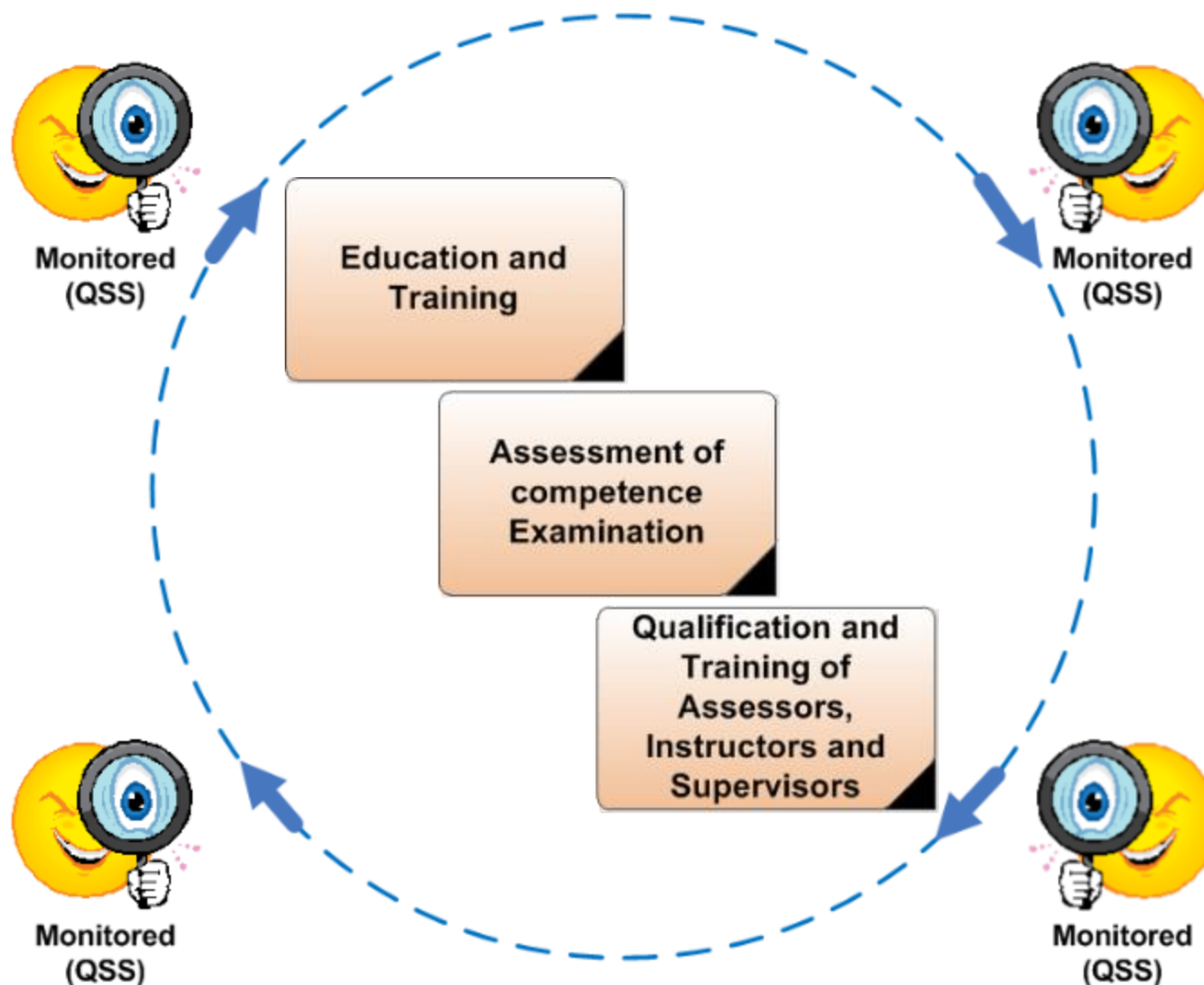
- 2 The refresher and updating courses shall:
- be approved
 - include changes in relevant national and international regulations
 - take account of any **updating of the standard of competence** concerned

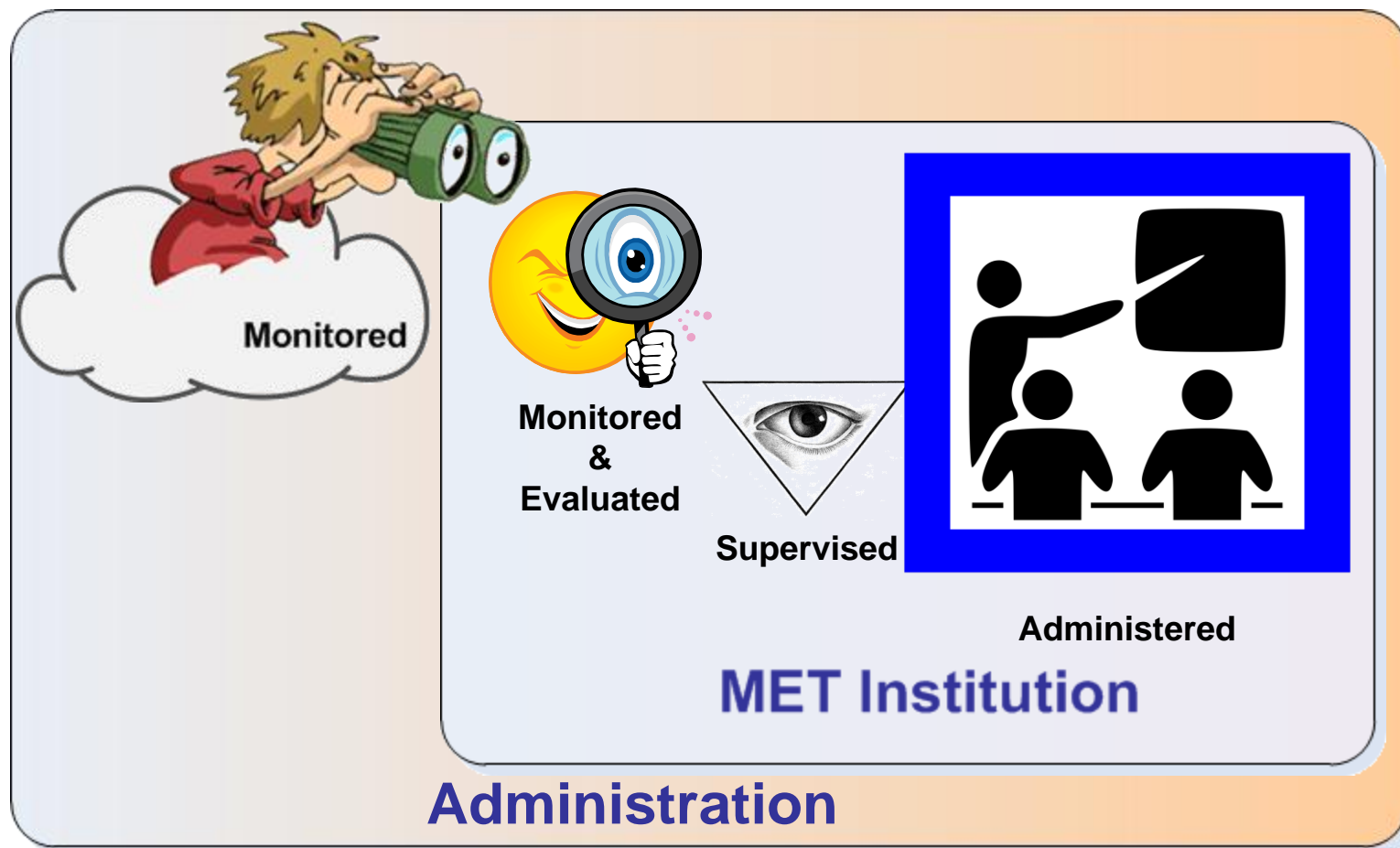
Approval of training courses

6 In approving training courses and programmes, Parties should take into account that the relevant IMO Model Courses can assist in the preparation of such courses and programmes and ensure that the detailed learning objectives recommended therein are suitably covered.

What about?

In approving training courses and programmes, Parties shall ensure that all knowledge, understanding and proficiency listed in the relevant tables of competence set out in the STCW Code are suitably covered. The relevant IMO Model Courses can assist in the preparation of such courses and programmes.





Supervision



- Co-ordination
- Direction
- Continuous Checking

Supervision of training



Instructor's performance



Student's performance

Supervision of assessment



Examiner's performance



Candidate's performance

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