

ANNEX II

PROFESSIONAL KNOWLEDGE REQUIRED TO OBTAIN THE BOATMASTERS' CERTIFICATE FOR INLAND NAVIGATION

CHAPTER A

General subjects relating to the transport of goods and passengers

PART 1:

GROUP A CERTIFICATE

1. Navigation
 - (a) Exact knowledge of the traffic regulations of inland and maritime waterways, particularly of ECIW (European code for inland waterways) and of the International Regulations for Preventing Collisions at Sea, including nautical signing (designation and buoying of waterways);
 - (b) Knowledge of the general geographical, hydrological, meteorological and morphological characteristics of the main inland and maritime waterways;
 - (c) Terrestrial navigation with:

Determination of the course, position lines and ship's position, nautical printed matters and publications, work in the sea chart, nautical marks and buoyage systems, checking of the compass and bases of tidology.
2. Vessel manoeuvring and handling
 - (a) Handling of the vessel taking account of the effect of wind, current, thrust deduction and draught for the evaluation of sufficient buoyancy and stability;
 - (b) Role and functioning of the rudder and propeller;
 - (c) Anchoring and berthing in all conditions;
 - (d) Manoeuvres in locks and ports, manoeuvres when meeting and passing other vessels.
3. Vessel construction and stability
 - (a) Knowledge of the basic principles of vessel construction with regard in particular to the safety of persons, the crew and the vessel;
 - (b) Basic knowledge of Council Directive 82/714/EEC of 4 October 1982 on the technical provisions for inland waterway vessels⁽¹⁾;
 - (c) Basic knowledge of the main component parts of the vessel;
 - (d) Theoretical knowledge of the buoyancy and stability rules and their practical application, especially seaworthiness;
 - (e) Additional requirements and in particular additional equipment, on maritime waterways.

Status: EU Directives are being published on this site to aid cross referencing from UK legislation. After IP completion day (31 December 2020 11pm) no further amendments will be applied to this version.

4. Engines
 - (a) Basic knowledge of the design and working of the engines in order to ensure their proper functioning;
 - (b) Operation and inspection of the main and auxiliary engines and action to be taken in case of disorder.
5. Loading and unloading
 - (a) Use of draught indicators;
 - (b) Determination of the loading weight using the certificate of measurement;
 - (c) Loading and unloading, stowage of cargo (stowage plan).
6. Action in special circumstances
 - (a) Principles of accident prevention;
 - (b) Measures to be taken in the event of damage, collision and running aground including the sealing of leaks;
 - (c) Use of rescue apparatus and equipment;
 - (d) First aid in the event of accidents;
 - (e) Prevention of fires and use of fire-fighting equipment;
 - (f) Prevention of pollution of waterways;
 - (g) Specific measures relating to the rescue of persons, vessels and cargo on maritime shipping routes, survival in distress.

PART 2:

GROUP B CERTIFICATE

1. Navigation
 - (a) Exact knowledge of the traffic regulations of inland waterways, particularly of ECIW (European code for inland waterways), including nautical signing (designation and buoying of waterways);
 - (b) Knowledge of the general geographical, hydrological, meteorological and morphological characteristics of the main inland waterways;
 - (c) Determination of the course, nautical printed matters and publications, buoyage systems.
2. Vessel manoeuvring and handling
 - (a) Handling of the vessel taking account of the effect of wind, current, thrust deduction and draught for the evaluation of sufficient buoyancy and stability;
 - (b) Role and functioning of the rudder and propeller;
 - (c) Anchoring and berthing in all conditions;

- (d) Manoeuvres in locks and ports; manoeuvres when meeting and passing other vessels.
- 3. Vessel construction and stability
 - (a) Knowledge of the basic principles of vessel construction with regard in particular to the safety of persons, the crew and the vessel;
 - (b) Basic knowledge of Council Directive 82/714/EEC of 4 October 1982 on the technical provisions for inland waterway vessels;
 - (c) Basic knowledge of the main component parts of the vessel;
 - (d) Theoretical knowledge of the buoyancy and stability rules and their practical application.
- 4. Engines
 - (a) Basic knowledge of the design and working of the engines in order to ensure their proper functioning;
 - (b) Operation and inspection of the main and auxiliary engines and action to be taken in case of disorder.
- 5. Loading and unloading
 - (a) Use of draught indicators;
 - (b) Determination of the loading weight using the certificate of measurement;
 - (c) Loading and unloading, stowage of cargo (stowage plan).
- 6. Action in special circumstances
 - (a) Principles of accident prevention;
 - (b) Measures to be taken in the event of damage, collision and running aground, including the sealing of leaks;
 - (c) Use of rescue apparatus and equipment;
 - (d) First aid in the event of accidents;
 - (e) Prevention of fires and use of fire-fighting equipment;
 - (f) Prevention of pollution of waterways.

CHAPTER B

Obligatory additional subjects for radar navigation

- (a) Knowledge of radar theory: general knowledge of radioelectric waves and principles of radar operation;
- (b) Ability to use radar equipment, interpretation of the radar display, analysis of the information supplied by the equipment and knowledge of the limits of the information supplied by radar;
- (c) Use of the turn indicator;

Status: EU Directives are being published on this site to aid cross referencing from UK legislation. After IP completion day (31 December 2020 11pm) no further amendments will be applied to this version.

- (d) Knowledge of the ECIW rules on radar navigation.

CHAPTER C

Obligatory additional knowledge for passenger transport

1. Basic knowledge of technical regulations on: the stability of passenger vessels in case of damage, division into watertight compartments, plane of maximum draught.
2. First aid in case of accidents.
3. Fire prevention and fire-fighting equipment.
4. Life-saving methods and equipment.
5. How to protect passengers in general, especially in the case of evacuation, damage, collision, running aground, fire, explosion and other situations which may give rise to panic.
6. Knowledge of safety instructions (emergency exits, gangplank, use of emergency helm).

Status: EU Directives are being published on this site to aid cross referencing from UK legislation. After IP completion day (31 December 2020 11pm) no further amendments will be applied to this version.

(1) [OJ No L 301, 28.10.1982, p. 1.](#)