



IWT Education and Training Institutes in Serbia

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INTRODUCTION

- EDUCATION
- TRAINING
- INSTITUTIONS
- CONCLUSION



- In Serbia there are several vocational schools where student can gain a graduation degree and in three of them IWT plays a major role.
- Approximately 30% of graduates are employed in the IWT sector. There are three schools in Serbia where nautical education takes place within a four and three years educational system.

- Prior education – 8 years of Elementary School
- Age of High School candidate -14 -18
- Educational period - 4 or 3 years
- Educational program covers general education and vocational subject

NAUTICAL EDUCATION IN SERBIA

1. School of Shipping, Shipbuilding and Water Civil Engineering – Belgrade.
Three curricula:
 - nautical technician, inland waterway department-duration 4 years
 - deckhand-duration 3 years
 - nautical engineer-duration 4 years

2. High Traffic School "PINKI" Novi Sad.

One curriculum:

Nautical technician, inland
waterway department
-duration 4 years



3. Technical School – Kladovo.

One curriculum:

- Nautical engineer
duration 4 years



School of Shipping, Shipbuilding and Water Civil Engineering - Belgrade .

- **More than 60 years old .**
- **30 students every year in Nautical technician department.**
- **20 students in Deckhand department.**
- **10 students in Nautical engineering department**



Throughout all education there are few subjects offered dealing exclusively with IWT:

- Stability and Ship loading,
- Sailing regulations and signaling,
- Inland Waterway Navigation and
- Practical training.

Regarding nautical engineering the interest is reduced, approximately 10 students every other year.

Some of them are employed in the IWT sector, and some of them are employed in the marine vessels.



High Traffic School "PINKI" – Novi Sad

- 30 students in nautical department.
duration - 4 years.



Technical School – Kladovo

- 30 students in nautical engineering department duration - 4 years.

Curriculum for nautical technician, Inland Waterway department

- **Duration of education/training**
 - **4 years**
- **Hours taught at school/on board**
 - **3904 hours (85%) taught at school and 655 (15%) hours of practical training**
- **General subjects taught/hours**
 - **2536 hours (55%)**
- **Special IWT subjects taught/hours**
 - **1368 hours (30%)**

Curriculum for deckhands

- **Duration of education/ training** ➤ **3 years**
- **Hours taught at school/on board** ➤ **2733 hours (80%) taught at school and 683 (20%) hours of practical training**
- **General subjects taught/hours** ➤ **1554 hours (45%) – general subjects**
- **Special IWT subjects taught/hours** ➤ **1179 hours (35%) – special IWT subjects**

Curriculum for nautical engineers

- **Duration of education/ training** ➤ **4 years**
- **Hours taught at school/on board** ➤ **4048 hours (88%) taught at school and 510 (12%) hours of practical training**
- **General subjects taught/hours** ➤ **2416 hours (53%) – general subjects**
- **Special IWT subjects taught/hours** ➤ **1632 hours (35%) – special nautical engine subjects**

All vocational schools in Serbia are public institutions and their curricula were approved of Ministry of Education.

- Many technical schools do not include IWT. Their focus is on logistics.

No Institute or study program specialized in IWT at University level. Some lessons on IWT are taught at only two institutes:

- University of Belgrade- Faculty of Transport and Traffic Engineering - Department for Water Transport
- Military Academy - Belgrade.

UNIVERSITY OF BELGRADE- FACULTY OF TRANSPORT AND TRAFFIC ENGINEERING - DEPARTMENT FOR WATER TRANSPORT

- Not educating crews for IWT.
- Deals exclusively with logistics.
- Some subjects related to IWT:
Navigation, Security, RIS, Ship maneuvering,
Towing , Pushing etc. (theoretically)

MILITARY ACADEMY – BELGRADE

- Only institution on University level educating crews for military river vessels (warships).
- IWT is taught on a very basic level.
- Additional training is necessary for serving on civil vessels.

TEACHING STAFF

- Some of the vocational teachers have practical background.
- No teachers with IWT background except for Nautical education.
- University teachers have university background without practical experience in the field of inland navigation.

INTERNSHIP

- In most vocational schools on the secondary school level, internship is not foreseen.
- Practical training for apprentices of vocational schools is organized in different companies, duration-two weeks a year.

CONCLUSION !

- Old educational programs
- Too many classes of general subjects
- Not enough practical work
- We have started with reforms of old educational system according to EU models
- The reform of educational system in schools educating for IWT has not started yet

GENERAL CONCLUSION !

- We expect that education and training courses will be balanced in favor of training ones by Serbian education reform
- We expect that the reform will support changing of old educational system in order to comply with curricula in EU countries



Thank you for your kind attention!

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