

# THE FACTORS AFFECTING THE MET INSTRUCTORS' EFFICIENCY

Srđan Vujičić<sup>a</sup>, Nermin Hasanspahić<sup>a</sup>, Ana Gundić<sup>b</sup>, Lovro Maglić<sup>c</sup>

<sup>a</sup> University of Dubrovnik, Maritime Department, Dubrovnik, 20000, Croatia, <sup>b</sup> University of Zadar, Maritime Department, Zadar, 23000, Croatia, <sup>c</sup> University of Rijeka, Faculty of Maritime Studies, Rijeka, 51000, Croatia

• **Training and assessment requirements** for the qualification of instructors and assessors in MET are specified in the:

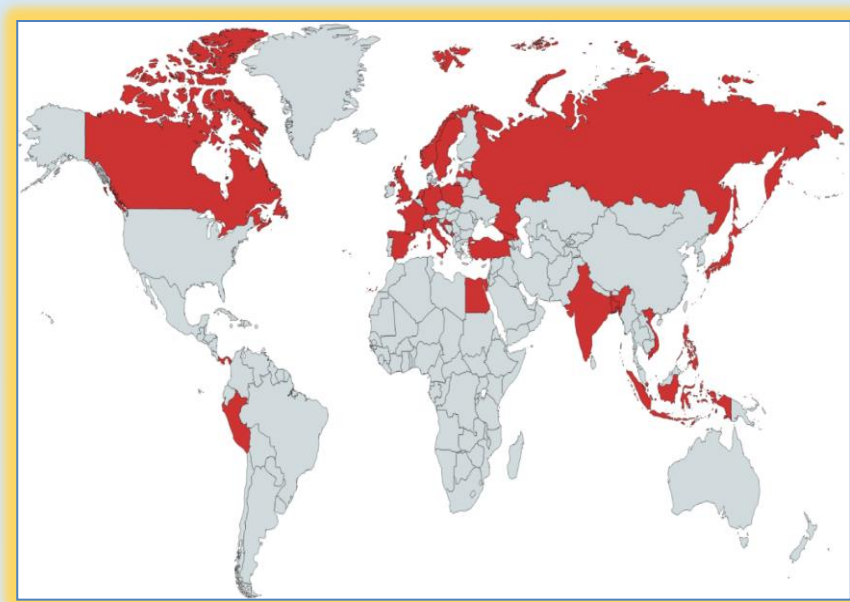
- STCW Regulation I/6 of Chapter I – General Provisions
- Quality Standards in the STCW Regulation I/8
- the mandatory technical standards are contained in Part A of the STCW Code 78/95
- Training, assessment and quality standards - specified in the **non-binding** Part B of the STCW Code
- Each Party assesses instructors' competences and chooses the quality standard model.

• **Quality assurance** in MET consists of three elements:

- the proposed curriculum
- teaching methodology and assessment
- adequate resources
- IMO Model Courses could help effectively implement the STCW Convention:
- IMO Model Course 6.09 Training Course for Instructors
- IMO Model Courses 1.30 (Onboard Assessment); 3.12 (Assessment, Examination & Certification of Seafarers); 6.10 (Train the Simulator Trainer and Assessor)

**Survey questionnaire: "Assessment for adequately qualified instructors in MET institutions"**

- Available: January 2019 - January 2020
- **20 questions** designed to gain insight into the MET instructors' opinions and attitudes:
- 5 questions – demographic
- 15 questions - information on respondents' experience and observation regarding courses, training and the teaching process.



Countries that participated in the survey

Table 1. Demographic questions, Sea experience and additional education

Respondents	Question	Answer	Percentage
<b>Age</b>	<b>Q: How long have you been holding classes?</b>	Less than a year	1.8%
		1 – 5 years	25.7%
		5 – 10 years	28.3%
		More than 10 years	44.2%
<b>Academic rank or position</b>	<b>Q: Do you have any navigational experience?</b>	Yes, more than 10 years	37.2%
		Yes, 5 – 10 years	18.6%
		Yes, 1 – 5 years	21.2%
<b>Working at the</b>	<b>Q: Have you sailed on ships of 3000 GT (3000 kW) or more in last 5 years and how long?</b>	More than 1 year	24.8%
		6 months – 1 year	9.7%
		Less than 6 months	8%
		I have not	57.5%
<b>CoC</b>	<b>Q: Have you received any additional training on other institutions since the day of your employment? How long?</b>	More than 1 year	31%
		6 months – 1 year	7%
		3 – 6 months	8%
		Less than 3 months	23.9%
<b>CoC</b>	<b>Q: Have you attended any of the courses for seafarers since the day of your employment?</b>	Yes, more than 5 courses	5.3%
		Yes, 4 courses	9.7%
		Yes, 3 courses	11.5%
		Yes, 2 courses	10.6%
<b>CoC</b>	<b>Q: Have you attended any of the courses for seafarers since the day of your employment?</b>	Yes, 1 course	5.3%
		No	24.8%
		Master	38.9%
		Chief Eng.	11.5%
<b>CoC</b>	<b>Q: Have you attended any of the courses for seafarers since the day of your employment?</b>	Yes, 4 courses	9.7%
		Yes, 3 courses	11.5%
		Yes, 2 courses	10.6%
		Yes, 1 course	5.3%
<b>CoC</b>	<b>Q: Have you attended any of the courses for seafarers since the day of your employment?</b>	No	24.8%
		Faculty of Maritime Studies	82.3%
		Maritime High School	13.3%
		Maritime Training Centre	30.1%
<b>CoC</b>	<b>Q: Have you attended any of the courses for seafarers since the day of your employment?</b>	Yes, 2 courses	10.6%
		Yes, 1 course	5.3%
		No	24.8%
		Others	3.6%
<b>CoC</b>	<b>Q: Have you attended any of the courses for seafarers since the day of your employment?</b>	Yes, 2 courses	10.6%
		Yes, 1 course	5.3%
		No	24.8%
		Others	3.6%
<b>CoC</b>	<b>Q: Have you attended any of the courses for seafarers since the day of your employment?</b>	Yes, 2 courses	10.6%
		Yes, 1 course	5.3%
		No	24.8%
		Others	3.6%

Table 2. Survey results

Question	Answer	Percentage
<b>Q: Do you use the adequate IMO Model courses when organising and holding trainings?</b>	Always	42.5 %
	Often	27.4 %
	Sometimes	21.2 %
	Never	8.8%
<b>Q: Have you ever use simulator as necessary part of the teaching program?</b>	Yes	82.3 %
	No	17.7 %
<b>Q: Are you satisfied with the available teaching materials you use?</b>	Yes	72.6 %
	No	27.4 %
<b>Q: Do you think that trainers should be more familiar with the implementation of IMO Model Courses prescribed by the STCW Convention and its annexes?</b>	Yes	81.4 %
	No	18.6 %
<b>Q: Do you evaluate your teaching?</b>	Yes	94.7 %
	No	5.3 %

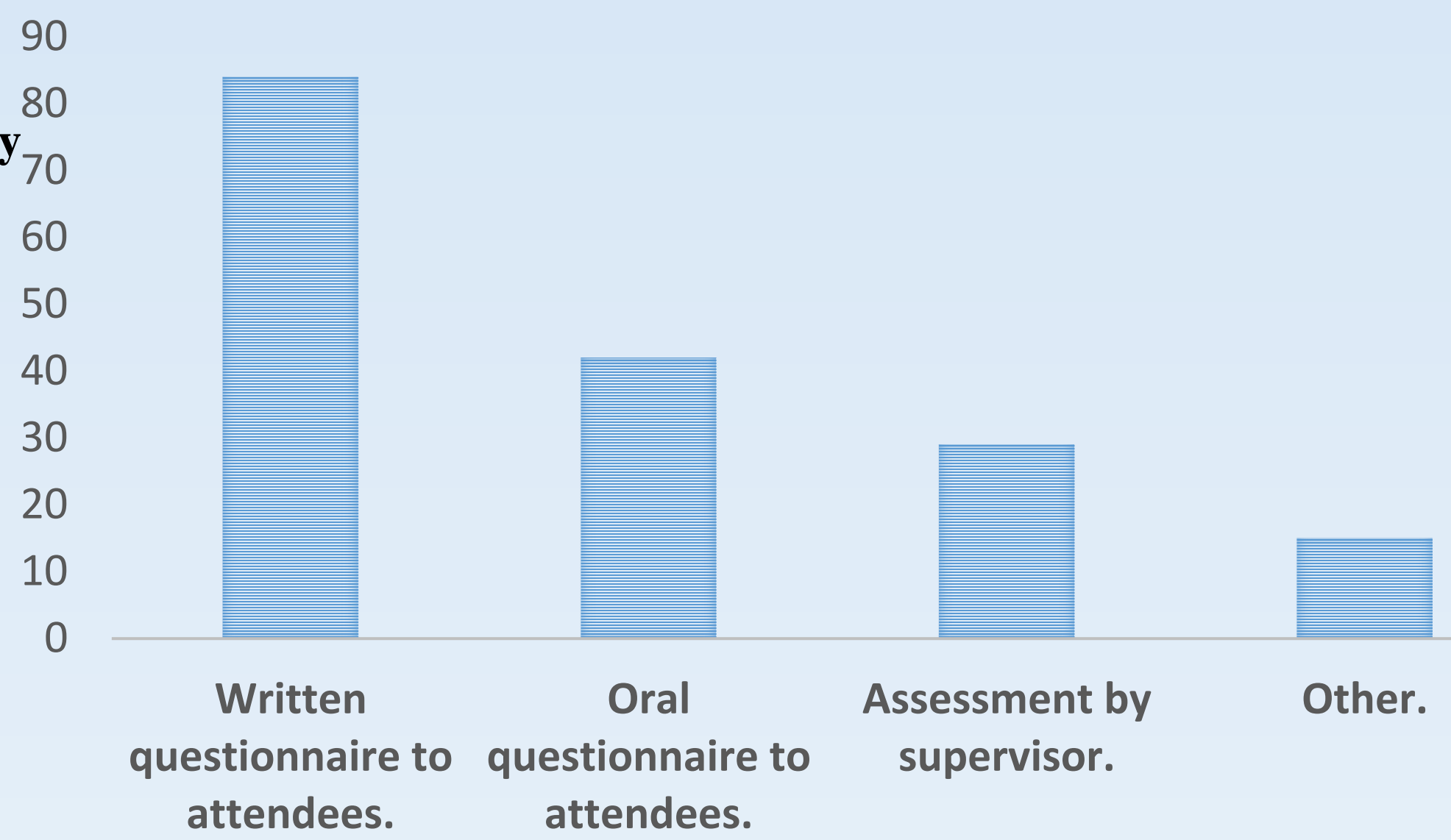


Figure 3. Teaching evaluation in MET

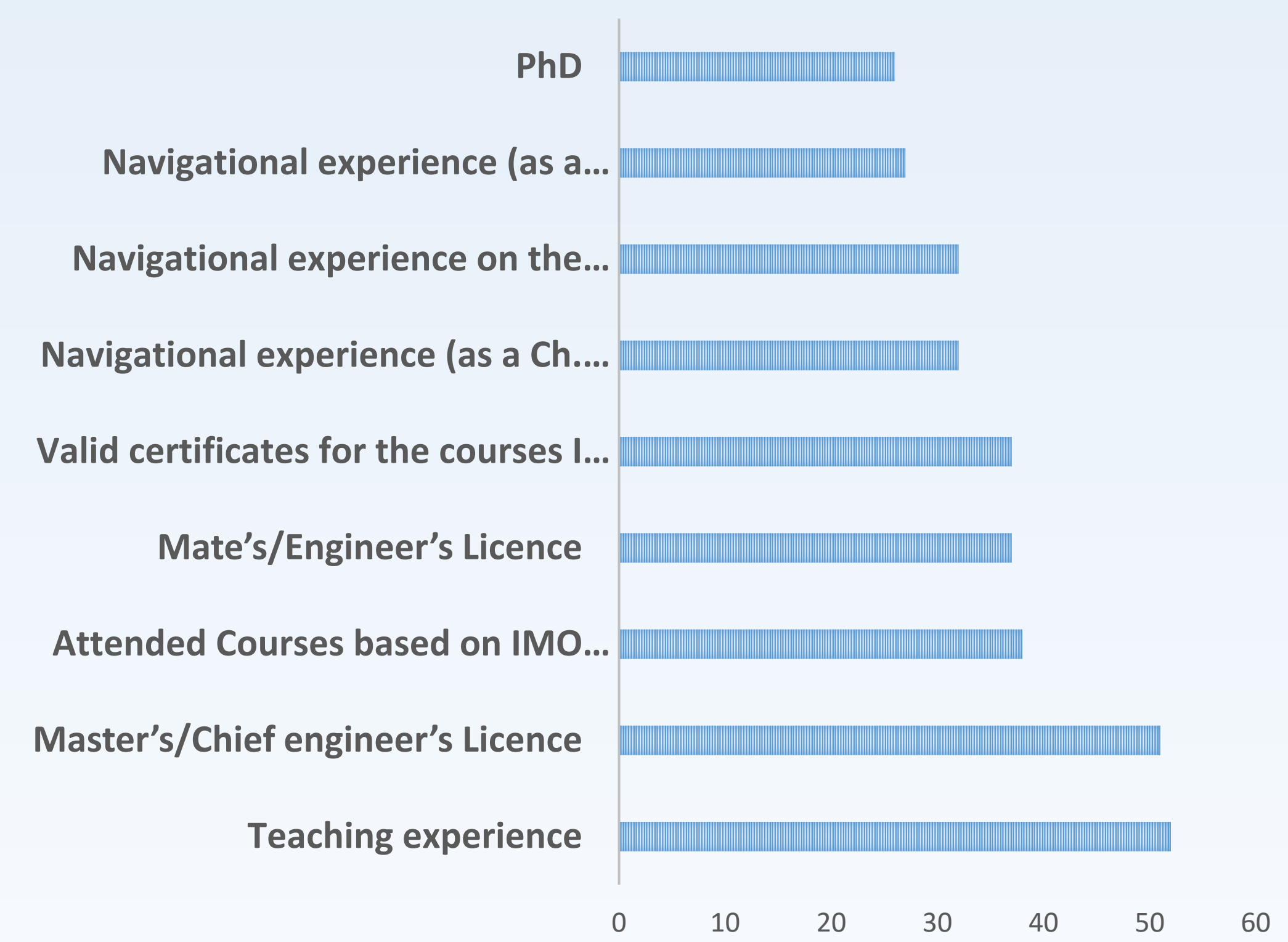


Figure 4. Competences required by MET institutions

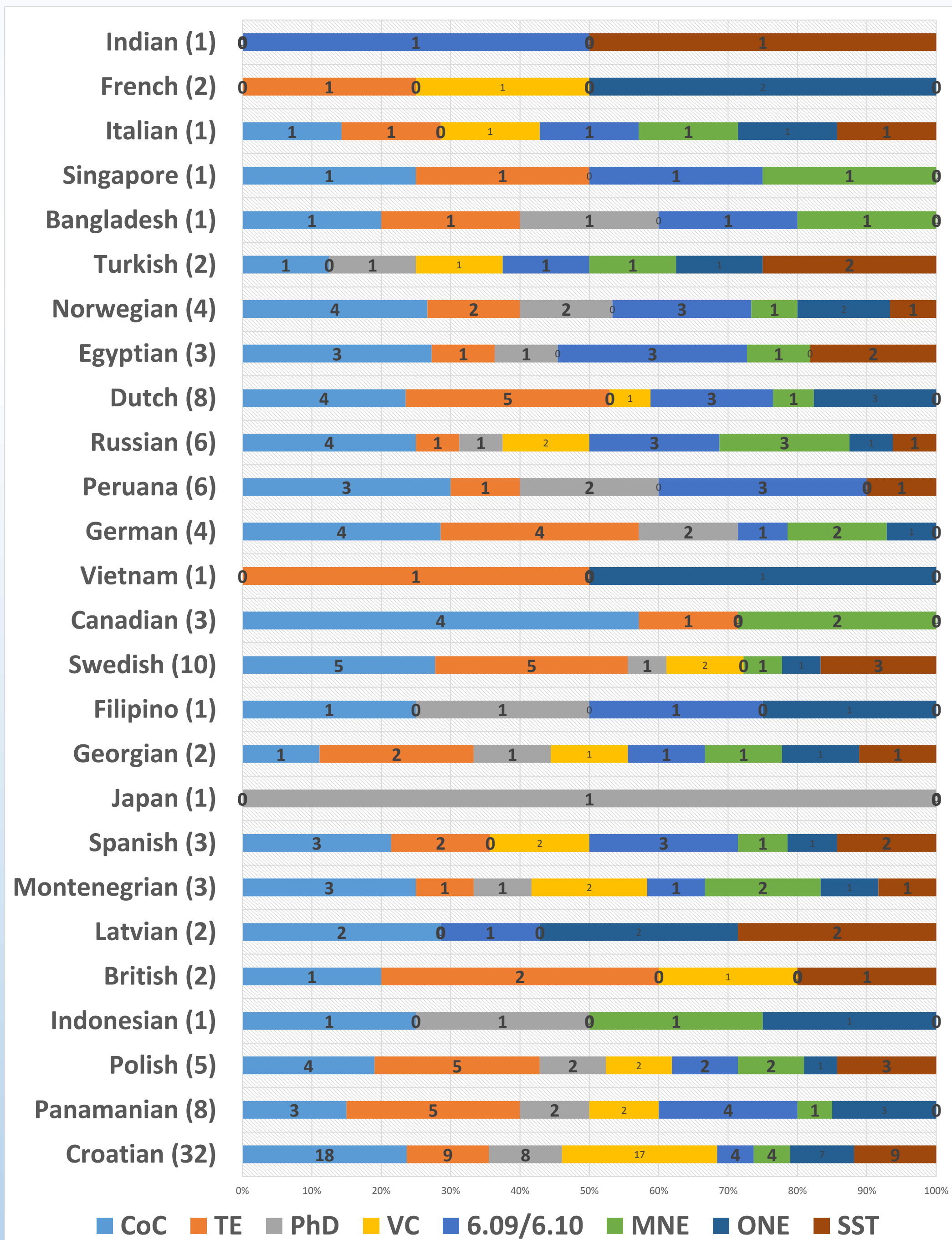


Figure 5. Competences required by Parties according to nationality

- Practical navigation experience (MNE – Master with navigational experience and ONE – Officer with navigational experience) is a competence as important as academic positions.
- Specific ship type (SST) experience is a competence required by some Parties for specific courses.
- Out of 26 participating countries, 84.6% require Certificate of Competency (CoC), 65.4% Teaching Experience (TE), 61.5% PhD, 50% Valid certificates for the courses they hold (VC), 73% IMO Model Courses 6.09 and 6.10, 69.2% Master's/Chief engineer's experience (MNE), 69.2% Mate's/Engineer's experience (ONE) and 50% Navigational experience on the specific type of ships for the courses they hold (SST).

## CONCLUSION

This survey investigated the main factors that affect teaching in MET institutions **Key to success:**

- students' or seafarers' motivation,
- engagement in various tasks,
- good instructor's interaction with students
- appropriate transformation of instructor's practice

**The authors' suggestion:**

those who do not have teaching experience should attend courses that help acquire new knowledge regarding teaching and effective group work

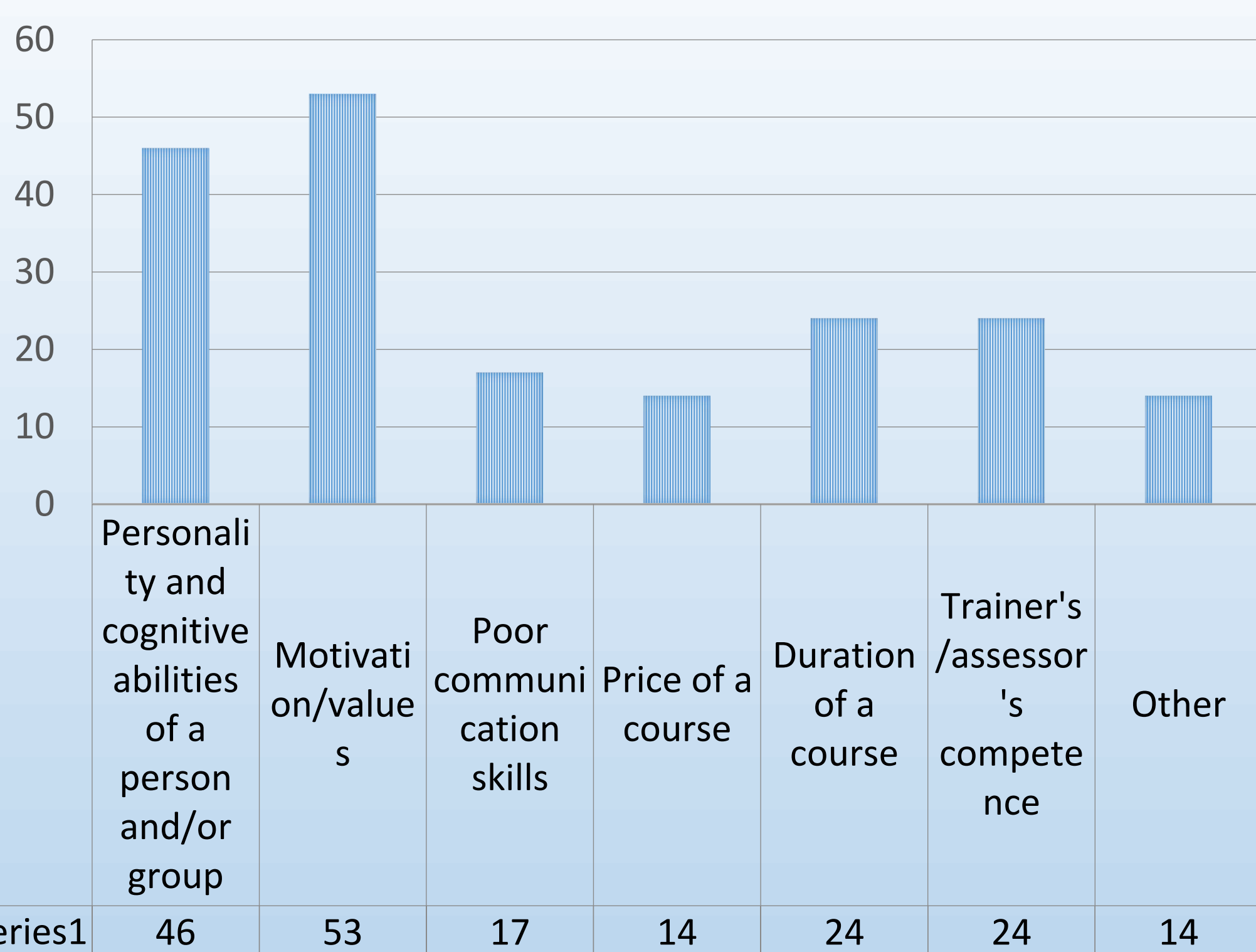


Figure 1. Problem notification during the courses and the most frequent causes

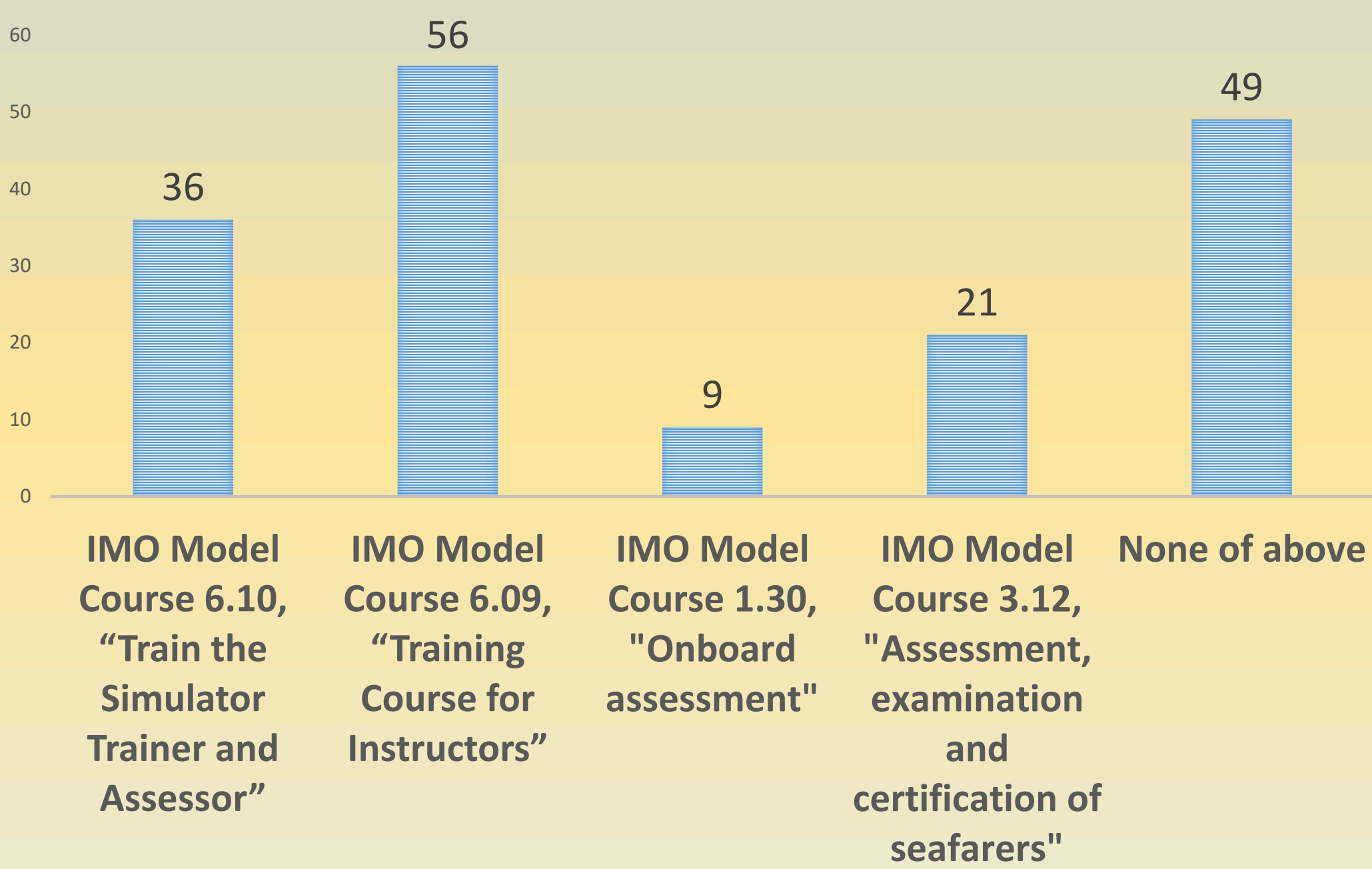
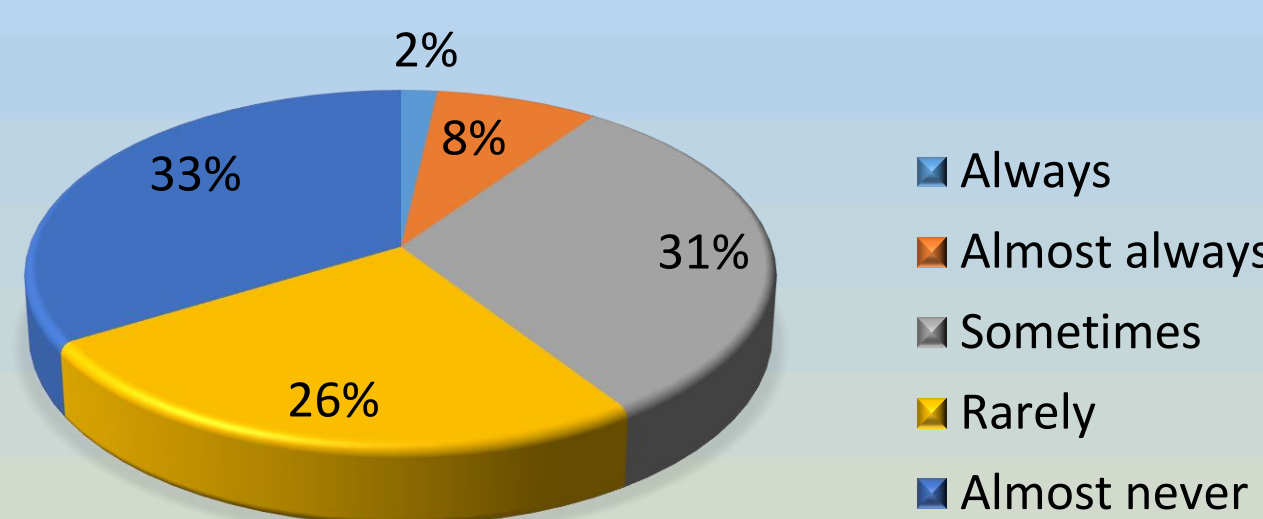


Figure 2. Instructor attendance to IMO Model Courses



Presenter: MASTER MARINER Srđan Vujičić PhD NAUTICAL SCIENCES