



COMMERCIAL FISHING SKILL

COMPETENT SPECIALIST



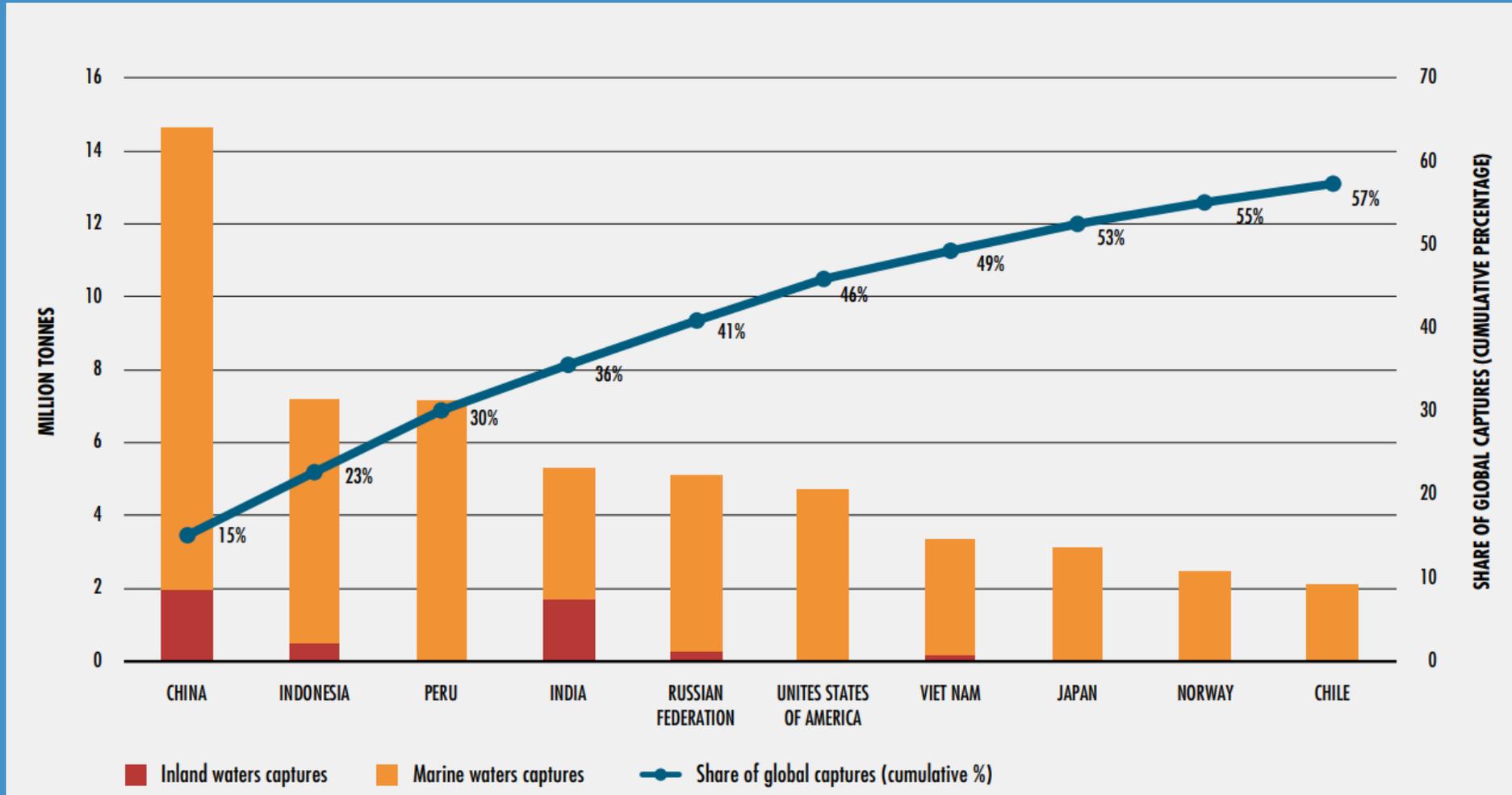
A specialist competent in commercial fishing is a person with practical skills to professionally perform work on creation and operation of commercial fishing gears – trawls.

Area of professional activity: organization and execution of work on a fishing vessel, including manufacture, operation and repair of commercial fishing gears - trawls.



Objects of professional activity of a specialist competent in commercial fishing are commercial fishing gears - midwater and bottom trawls; technologies for manufacture, construction and design of commercial fishing gears - midwater and bottom vessels; decks of fishing vessels; repair technologies for midwater and bottom trawls.

STATE OF THE WORLD FISHERIES



TOP TEN GLOBAL CAPTURE PRODUCERS, 2018

Source: FAO. 2020. *The State of World Fisheries and Aquaculture 2020. Sustainability in action.* Rome.
<https://doi.org/10.4060/ca9229en>

STATE OF THE WORLD FISHERIES



Country or territory	Production (average per year)			Production				Percentage of total, 2018
	1980s	1990s	2000s	2015	2016	2017	2018	
	<i>(million tonnes, live weight)</i>							
China	3.82	9.96	12.43	14.39	13.78	13.19	12.68	15
Peru (total)	4.14	8.10	8.07	4.79	3.77	4.13	7.15	8
<i>Peru (excluding anchoveta)</i>	<i>2.50</i>	<i>2.54</i>	<i>0.95</i>	<i>1.02</i>	<i>0.92</i>	<i>0.83</i>	<i>0.96</i>	–
Indonesia	1.74	3.03	4.37	6.22	6.11	6.31	6.71	8
Russian Federation	1.51	4.72	3.20	4.17	4.47	4.59	4.84	6
United States of America	4.53	5.15	4.75	5.02	4.88	5.02	4.72	6
India	1.69	2.60	2.95	3.50	3.71	3.94	3.62	4
Viet Nam	0.53	0.94	1.72	2.71	2.93	3.15	3.19	4
Japan	10.59	6.72	4.41	3.37	3.17	3.18	3.10	4
Norway	2.21	2.43	2.52	2.29	2.03	2.38	2.49	3
Chile (total)	4.52	5.95	4.02	1.79	1.50	1.92	2.12	3
World total	72.10	81.86	81.56	80.51	78.27	81.21	84.41	100

MARINE CAPTURE PRODUCTION: MAJOR PRODUCING COUNTRIES AND TERRITORIES

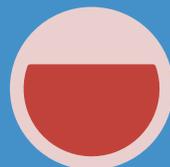
Source: FAO. 2020. *The State of World Fisheries and Aquaculture 2020. Sustainability in action.* Rome.
<https://doi.org/10.4060/ca9229en>

DEVELOPMENT OF THE SKILL IN RUSSIA



2019

Creation of the skill in Russia

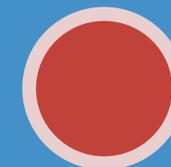


2020 – 2021

Regional competitions:

- Kaliningrad region,
- Saint Petersburg,
- Kamchatka territory,
- Vladivostok.

Final competitions in competencies that do not take part in the Final of the IX National Championship "Young Professionals" (WorldSkills Russia) in Vladivostok

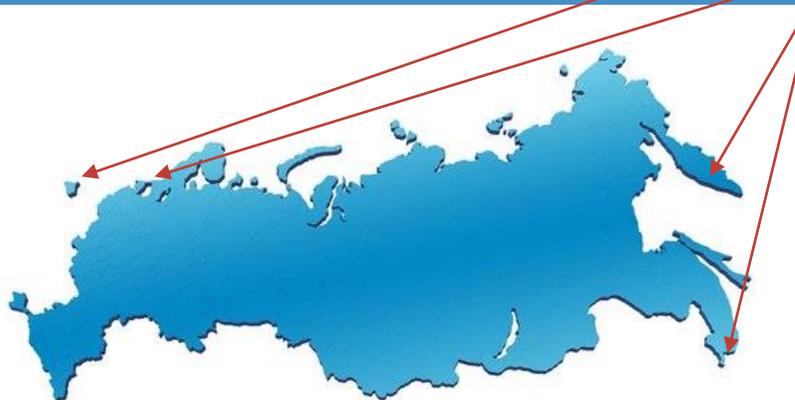


2021 - 2022

Regional competitions:

- Kaliningrad region,
- Vladivostok;
- Saint Petersburg;
- Kamchatka territory.

Final competitions in Vladivostok.



«WE ARE NOT ALONE»



People's Republic of China, Republic of Turkey, Kingdom of Morocco, Israel, Federative Republic of Brazil, Republic of India, Republic of South Africa

STANDARD SPECIFICATION/ SKILLS OF SPECIALIST



Section		Relative importance (%)
1	Work place arrangement	10
2	Work with documents, graphs, diagrams	15
3	Software	10
4	Design and use of rope products, netting materials, lifting gear, equipment	10
5	Trawl creation and repair	20
6	Equipment for trawl creation and repair	15
7	Work on the vessel to put the trawl into operation	20
Total		100

SKILL'S MODULES (COMPETITION AND EDUCATION)



A) Creation of a technical design of the trawl



B) Making a trawl mock-up



C) Search and repair of tears/breaks



D) Trawl commissioning and setting



TIME TO PERFORM THE MODULES



22 hours

	Module name	Competition day (C1, C2, C3)
A	Creation of a technical design of the trawl	C1
B	Making a trawl mock-up	C2 C3
C	Search and repair of tears/ breaks	C3
D	Trawl commissioning and setting	C3

TIME TO PERFORM THE MODULES



Option 1

	Module name	Exam day	Module duration
A	Creation of a technical design of the trawl	1	3 hours
B	Making a trawl mock-up	1	4 hours
Total		1	7 hours

Option 2

	Module name	Exam day	Module duration
B	Making a trawl mock-up	1	6 hours
C	Search and repair of tears/ breaks	1	2 hours
Total		1	8 hours

TIME TO PERFORM THE MODULES



Option 3

	Module name	Exam day	Module duration
C	Search and repair of tears/ breaks	1	1 hours
D	Trawl commissioning and setting	1	3 hours
Total		1	4 hours

Option 4

	Module name	Exam day	Module duration
B	Making a trawl mock-up	1	6 hours
D	Trawl commissioning and setting	1	2 hours
Total		1	8 hours

EDUCATION



Secondary vocational education

Basic training qualification –
Mechanic of fishing gears

Secondary general education 2 years 10 months

Basic general education 3 years 10 months

In-depth training qualification–
Chief mechanic of fishing gears

Secondary general education 3 years 10 months

Basic general education 4 years 10 months

Higher education (Bachelor degree program)

Secondary general education 4 years

TRAINING IN COMMERCIAL FISHERY IN THE WORLD



China



India



Federal Republic of
Nigeria

SHANGHAI OCEAN UNIVERSITY
<https://www.shou.edu.cn/>
College of Fisheries and Life Science
<https://smxy.shou.edu.cn/>

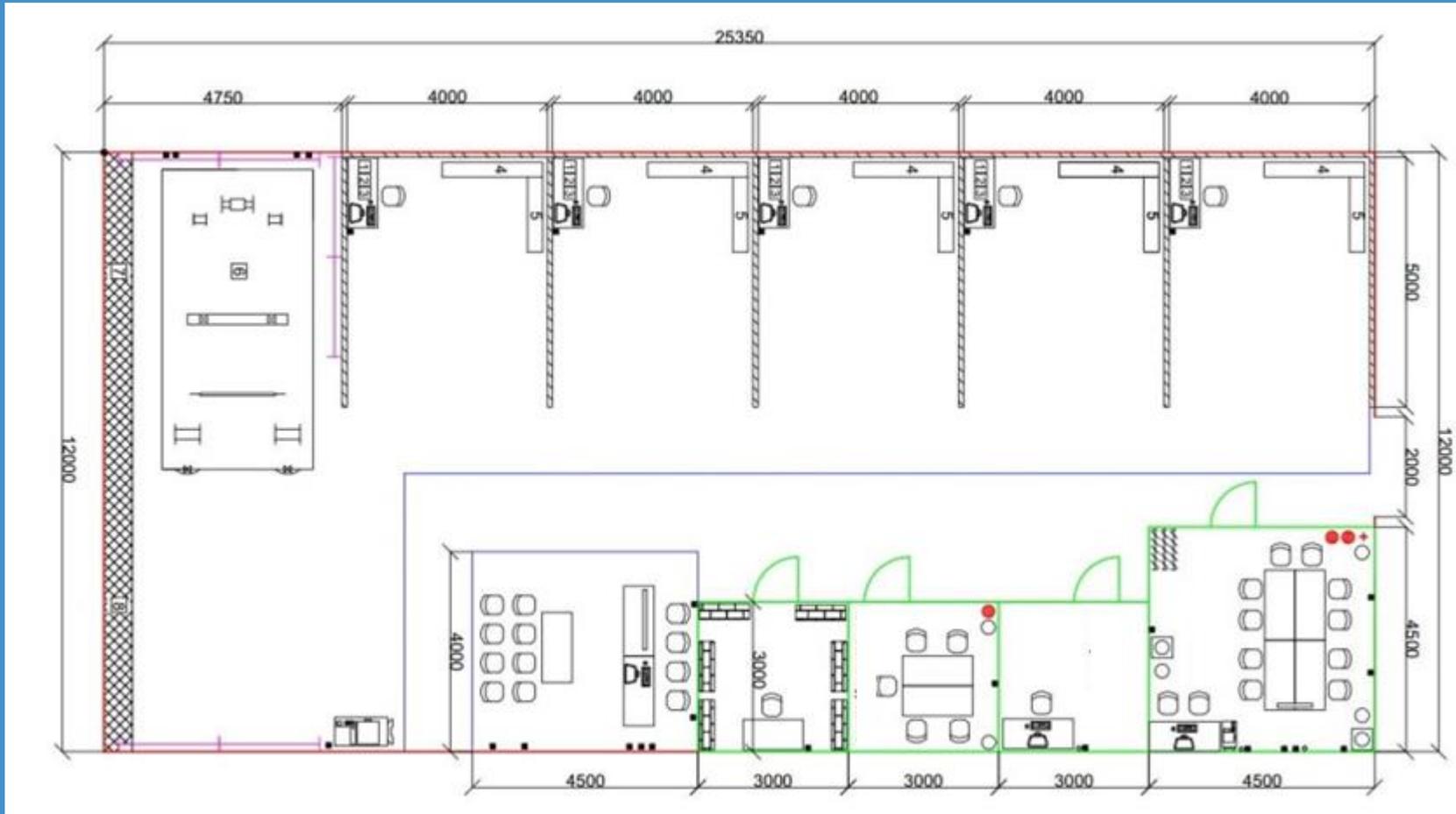
OCEAN UNIVERSITY OF CHINA
<http://eweb.ouc.edu.cn/main.htm>
Fisheries College
<http://eweb.ouc.edu.cn/fisheries/>

KARNATAKA VETERINARY,
ANIMAL AND FISHERIES
SCIENCES UNIVERSITY,
BIDAR
http://www.kvafsu.edu.in/cof_mangaluru/manjanaik.html
College of Fisheries, Mangalore
<http://www.cofm.edu.in/>
Fisheries College and Research
Institute (FC&RI), Thoothukudi
<https://www.tnjfu.ac.in/fcritut/>

REYKJAVIK UNIVERSITY
IcelandaYd School of Fisheries
<https://en.ru.is/news/reykjavik-university-launches-iceland-school-of-fisheries>

International School of
Commercial Fishing Gear
Technology
<https://www.iscft.com/>

SKILL LAYOUT PLAN ON 5 WORK PLACES

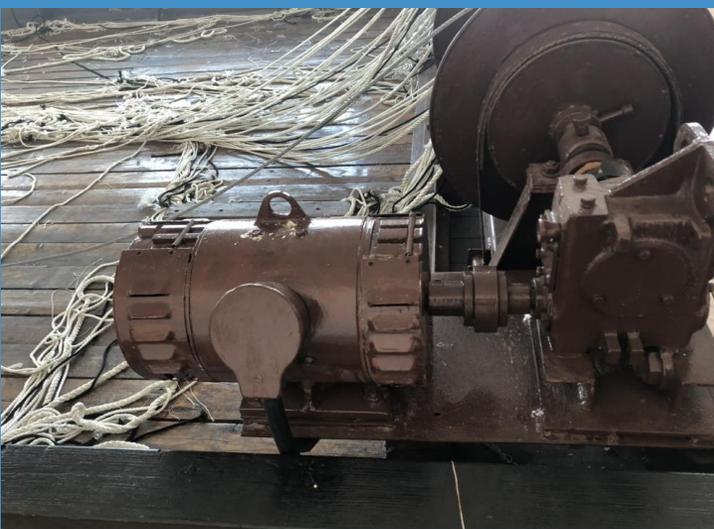


- PC
- MFD
- CAD system
- Fisherman needle
- Knife
- Fish deck design
- Vessel fishing crew simulator

WORK AREA



BRICS
Business Council



INDUSTRIAL PARTNERS





THANK YOU!

Team

Skill manager – Aleksandr Nedostup

(nedostup@klgtu.ru, +79062181141; +79114855830, Kaliningrad)

Experts – Aleksandr Bonk, Petropavlovsk-Kamchatsky

Nikolay Meleshko, Vladivostok

Yuriy Bondaletov, Saint Petersburg