

PEC Ship Handling Simulation - Course Guideline

1 What is PEC (Pilot Exemption Certificate) system?

A Master who has regulated navigation experiences is authorized as a person having the satisfied abilities and knowledge of the compulsory pilotage area, and is granted exemption from compulsory pilotage in certain fairways. Such an exemption is called Pilot Exemption Certificate (PEC).

2 Amendment of Authorized Navigation Experience System on PEC

Based on the "Regulatory Reform Plan", established at Cabinet council in March 2004, amendment of authorized navigation experience system has been set as provisions of (amended as April 4, 2005)

Main essences of the amendment are follows:

- (1) Equal system for both domestic and international flags
Authorized Navigation Experience System, which used to be applied only to a Master of Japan Flag, is now available for a Master of all flags.
- (2) Global Standard
The standard of the navigation experience required for compulsory pilot exemption has been substantially amended and become almost equivalent to the one in European countries.
- (3) Substitutive Simulation Course for the navigation experience
The number of necessary navigation experience is increased after enforcing the amended Authorized Navigation Experience System. In order to ease the increase number of necessary experience, the number can be covered by taking substitutive simulation course.

Table-1: Comparison: Former system and New system

			Former system	New system
Authorized Route			16 routes	35 routes
Subject Ship's Flag			Japan	All Flags
Ship's Classification	General ship		Up to 20,000 GT	Up to 20,000 GT
			Over 20,000 GT	Over 20,000 GT
	Ship carrying inflammable dangerous cargo		Up to 20,000 GT	Up to 20,000 GT
			Over 20,000 GT	Over 20,000 GT
				Up to 50,000 GT
				Over 50,000 GT
Necessary experience to be granted by the system	Voyage experience (Within 1 years)	General ship	4 times	24 times
		Ship carrying inflammable dangerous cargo	4 times	48 times
		General ship (in Kanmon area, Arriving and leaving)	6 times	36 times
		Ship carrying inflammable dangerous cargo (in Kanmon area, Arriving and leaving)	6 times	48 times

	Examination	N/A	Written and Oral examination* (ability of Japanese language, requisite knowledge of Japanese Marine traffic regulation.)
	Authorization validity	2years	2years
Condition for Renewal	Voyage experience (within2 years)	1time	4 times
	Knowledge examination * ₂	N/A	Requisite Knowledge of Marine Traffic Regulation
	Subject of Disqualification	NIA	Applicant who has had incidents in Japanese territorial waters for past 2years cannot apply for the exemption.

Remark:

1. Port arriving and departure shall be counted separately. (arriving and departure = two qualifying experience).
2. Written and oral examination* and requisite knowledge examination*₂ are for a Master from foreign country to ensure that the applicant has abilities and working knowledge of Japanese languages as well as regulations of Japanese marine traffic. Japanese Master or officer who has nautical competence is exempt from the examinations.

3 PEC Ship handling simulation course provided by JMS

Japan Marine Science Inc. (JMS) is an authorized facility implementing the courses for qualifying by Ministry of Land, Infrastructure and Transport. JMS provides a ship handling simulation course for Pilot Exemption Certificate (PEC) by operating full mission ship handling simulator.

This course is carried out in the similar operation as BRM (Bridge Resource Management) training.

3-1 Training Schedule

PEC Ship handling simulation course takes approximately 120-180 minutes per certification route.

AM:0900~1200 PM : 1300~1600

1. Orientation (10 minutes)

Applicants will learn a purpose of ship handling simulation course and course implementation structure. Course evaluator also shows you how to proceed the course as well as how to evaluate the grade.

2. Planning Passage Plan (15 minutes)

Under course evaluator's instruction, applicants will make a passage plan for their navigation route and explain it to the course evaluator.

3. Pre-course Training (15 minutes)

Applicants will take pre-course training by operating the ship handling simulator in order to understand operation method and maneuverability of the ship to be used for a course. Applicants are also able to see how operation staffs works during simulation.

4. Ship Handling Simulation Course (60 ~120minutes)

Applicants take the simulation course based on the course scenario set for their navigation route. This course is arranged similar procedure as BRM training.

5. Grading review (10 minutes)

In accordance with grading guideline, evaluators grade applicants' passage planning and ship handling simulation. On this stage, evaluators give applicants their score sheet and wake chart from

the ship handling simulation and comment on the result of grading score. Applicant will be given Course Completion Certificate at the end of this stage.

3-2 Reduction of Necessary Navigation Experience for PEC

As shown in Table-2, applicants are able to reduce the required number of navigation experiences for the pilotage exemption. A number of reduction of required experiences are defined by the score applicant receive on the simulation course. e.g, if applicant receive the simulation score of 90%-100%, the increase number of navigation experience that can be substituted is covered by one simulation course. If applicant's score is lower than that, applicant will take more than one simulation courses in order to reduce the increase number of navigation experience.

Table-2 The relation between reduction of the necessary experience and simulation score

Table 2 The relation between reduction of the necessary experience and simulation score							
Score	Number of necessary experience that can be substituted	20	30	42	44	3	% of substitution
		Number of necessary navigation experience that can be substituted(times)					
90-100%		20	30	42	42	3	100%
80-89%		10	15	21	21	2	50%
70-79%		5	8	1	11	1	25%
69% or less		1	1	1	1	1	(1times)
Course failure		Disqualified as navigation experience					0 %

PEC Course fee : 176,000 yen per course

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Inquiries

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