DYNAMIC
POSITIONING
TRAINING

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Industry-Academic ETRS Center
COURSE INFORMATION PACK

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한국해양대학교 산학연ETRS센터
Education Technology Research Support

Offshore Technology Training Institute
해양플랜트 전문인력양성 사업단

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WELCOME TO INDUSTRY-ACADEMIC ETRS CENTER

First Accredited Dynamic Positioning Training Center in Korea
Korea Maritime and Ocean University, Industry-Academic ETRS Center

Industry-Academic ETRS Center of Korea Maritime and Ocean University has obtained international accreditation for Dynamic Positioning training for the first time in the nation. DP(Dynamic Positioning) means a system which is used to maintain position of vessels automatically using thrusters of special vessels or offshore support vessels. Granting and maintaining qualification for DPO(Dynamic Positioning Operator) are supervised by NI(Nautical Institute) based in the United Kingdom. Since Korea Maritime and Ocean University has obtained the accreditation, now we are available to issue certification for DPO which was only available from approved institutes in foreign countries.

Industry-Academic ETRS Center of Korea Maritime and Ocean University will focus on not only design of offshore installations but also on manpower training for higher value-added-service business such as maintenance, repair, decommissioning and etc. , laying groundwork for localization of the offshore capabilities.

WE PROVIDE THE FOLLOWING TRAINING COURSES

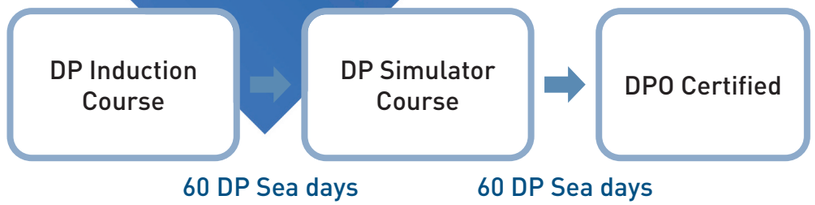
- DPO Induction(Basic)
- DPO Simulator(Advanced)
- DP Appreciation
- DP FMEA(Failure Modes and Effect Analysis)

DP TRAINING SCHEME

Industry-Academic ETRS Center is accredited by the Nautical Institute (NI) London for the conduct of DP Operator Induction and Simulator Courses.

To be a certified DPO, trainees must complete both DP Induction course and DP Simulator course with 60 days of DP seatime. The DP courses in Industry-Academic ETRS Center are designed in conjunction with the NI training scheme, and according to IMCA Guidelines.

All relevant sections of the Nautical Institute DP logbook need to be completed before a final application is made for a NI DPO Certificate.



For detailed NI DP requirements please refer to their website at:
http://www.nialexisplatform.org

COURSE

OUTLINE & ELIGIBILITY



DPO INDUCTION(BASIC) COURSE

I Eligibility I

With effect from January 2015, in order to attend the DPO Induction Course, candidates must belong to one of the following three categories:

- ⦿ STCW Regulation
  - **II /1 Deck** : Officers in charge of a navigational watch on ships of 500GRT or more
  - **II /2 Deck** : Master and chief mate on ships of 3,000GRT or mor
  - **II /3 Deck** : Officers in charge of a navigational watch and of masters on ship of less than 500GRT
  - **III /1 Engine** : Officers in charge of an engineering watch in a manned engine-room or designed duty engineers in a periodically unmanned engine-room
  - **III /2 Engine** : Chief engineer officer and 2nd engineer officers on ships powered by main propulsion machinery of 3,000kW propulsion power or more
  - **III /3 Engine** : Chief engineer officers and 2nd engineer officers on ships powered by main propulsion machinery of between 750kW and 3,000kW propulsion power
  - **III /6 ETO** : Electro-Technical Officer
- ⦿ Marine Vocational Qualifications (MVQs) : non-STCW Certificate of competency issued a white list maritime administration for use in the administration's local waters only
- ⦿ Officer Trainees(Cadets or ratings on a defined training program) - Prospective DPOs who are in the process of training for an initial STCW or MVQ certificate can start the DP scheme and complete the Induction Course. 30 days DP sea time and test sections

I Objective I

To provide trainees with sufficient knowledge of the principles of DP, setting up a DP system and understanding of the practical operation of relevant equipment, including position reference systems.

I Duration I

Monday to Thursday(9:30~17:30) and Friday (9:30~14:00)

I DP System I

MT(Marine Technologies) and Transas Visuals

I Course Contents I

- ⦿ Principles of DP
- ⦿ Elements of the DP system
- ⦿ Practical operation of the DP system
- ⦿ Position reference systems
- ⦿ Environment sensors and ancillary equipment
- ⦿ Power generation and supply and propulsion
- ⦿ DP operation

I Certificate I

Nautical Institute approved certificate of attendance

I Language I

English

DPO SIMULATOR(ADVANCED) COURSE

I Eligibility I

- ⦿ Hold a STCW Regulation II /1 - II /2 - II /3 Deck, Regulation III /1 - III /2 - III /3 Engine and Regulation III /6 ETO
- ⦿ Completed the DP Induction course and “Seagoing Familiarisation Watch keeping Log” in the NI DP Operators Log Book.

I Objective I

To provide trainees with simulated DP operations including errors faults and failures and exercises designed for different vessel types to give trainees a working knowledge of the essential aspects of DP Operations.

I Duration I

Monday to Thursday(9:30~17:30) and Friday(9:30~14:00)

I DP System I

MT(Marine Technologies) and Transas Visuals

I Course Contents I

- ⦿ Practical operation of the DP system
- ⦿ DP operations
- ⦿ DP alarms, warnings and emergency procedures

I Certificate I

Nautical Institute approved certificate of attendance

I Language I

English

COURSE

OUTLINE & ELIGIBILITY

DP APPRECIATION COURSE

| Target Group |
Any persons associated with operation, construction and maintenance of DP vessels

| Objective |
Candidates should be able to
- ⦿ Understand working principles of DP system
- ⦿ Identify different classes of DP vessels and their employment criteria
- ⦿ Understand the factors to be taken into consideration in process of planning and executing a DP operation.
- ⦿ Identify various emergencies that may arise during DP operation

| Duration |
2 days(Monday to Tuesday 09:30~17:30)

| DP System |
MT(Marine Technologies) and Transas Visuals

| Course Contents |
- ⦿ Components of DP system
- ⦿ Principles of DP system
- ⦿ IMO guidelines on DP vessels
- ⦿ DP capability
- ⦿ DP operations
- ⦿ DP emergencies

| Language |
English

DP FMEA(Failure Modes and Effect Analysis) Course

| Target Group |
* Prerequisite : DP Appreciation Couse

Any persons associated with the following:
- ⦿ Classification Societies : Surveyors
- ⦿ FMEA Surveyors : to start with basic information about all DP related trials
- ⦿ Owners/Charterers : to gain knowledge about the operation of DP vessels trials.
- ⦿ Operators : to know and mitigate the effects of any failure modes
- ⦿ Maintenance staff : to identify critical areas of a failure can be targeted by planned maintenance

| Objective |
Candidates should be able to
- ⦿ Understand the redundancy requirement for different classes of DP vessels
- ⦿ Recognize the need of FMEA and other trials
- ⦿ Understand the process of FMEA trials and basic principles of the tests
- ⦿ Understand the process of Annual DP trials
- ⦿ Understand process of Factory Acceptance Test(FAT) and Sea-trial Acceptance Test(SAT)
- ⦿ Identify the need for HIL and why requirement

| Duration |
2 days(Wednesday and Thursday 09:30~17:30)

| DP System |
MT(Marine Technologies) and Transas Visuals

| Course Contents |
- ⦿ Failure Modes and Effect Analysis(FMEA)
- ⦿ FMEA Proving Trial
- ⦿ Annual DP Trials
- ⦿ Factory Acceptance Test(FAT) and Sea-trial Acceptance Test(SAT)
- ⦿ Hardware-in-loop(HIL) tests

| Language |
English



COURSE REGISTRATIONS

Course Applying & info

- Request for registration from on www.otti.or.kr
- Contact at kmy9807@kmou.ac.kr or +82-51-410-4487

Applying Procedures

DPO Induction Course

Submit registration form → Notification of the admission from the center → Submit passport copy and COC → Notification of the payment procedure for course fee → Payment for course fee → Completion of the admission

DPO Simulator Course

Submit registration form → Notification of the confirmation from the center → Submit passport and DP logbook copy → Notification of the payment procedure for course fee → Payment for course fee → Completion of the admission

DP Appreciation Course

Submit registration form → Notification of the admission from the center → Notification of the payment procedure for course fee → Payment for course fee → Completion of the admission

DP FMEA Course

Submit registration form → Notification of the admission from the center → Notification of the payment procedure for course fee → Payment for course fee → Completion of the admission

COURSE INSTRUCTOR

Main Instructors

| Joseph Vinod | Nationality: Indian — Organization: C-MAR Asia Pte, Ltd.

- Organized and was chairman of the World DP Instructor Conference, singapore on behalf of the Nautical Institute, 2012.
- Conducted DP Appreciation Courses for Lloyds and ABS surveyors in Indonesia, South Korea, and London, since 2013.
- DP instructor and training manager for DP Centres of the CMAR Group(DPC Singapore, DPC Rio & CIAGA Brazil, and DPC SMU, China).

| Krishna Chandra Shukla | Nationality: Indian — Organization: C-MAR Asia Pte, Ltd.

- Director and DP instructor for the DP Center of the C-MAR India, 2012-2015 and worked at various C-MAR group training centres at Singapore, London and Mumbai.
- Authored advanced(Simulator) DP manual for the DP Training Courses and 'Dynamic Positioning-Theory and Practices'.
- Worked on diving support vessels/multi-purpose support vessel with SEAMEC Ltd. from 1999-2008 as DPO/SDPO/Master in Indian offshore, Persian Gulf and Gulf of Mexico.

| Ong Eng Lee | Nationality: Singapore citizen — Organization: C-MAR Asia Pte, Ltd.

- Specializes in providing technical services to the marine industry in the design and operation of dynamically positioned vessels, Failure Mode Effect Analysis(FMEA) and Audits in C-MAR Asia Pte Ltd, 2008-Present.
- Engineer surveyor dealing with class and statutory surveys in existing and new buildings high speed crafts, oil/chemical tankers as senior engineer and plan approval surveyor in Lloyd's register of shipping, 1995-2008.
- Carried out ships' machinery, equipment, hull and all safety & pollution surveys as marine surveyor in DNV classification, 1991-1995.

Backup Instructor

| David John King | Nationality: British — Organization: C-MAR Asia Pte, Ltd.

- Employed since March 2014 by C-MAR Asia Pte, Ltd as NI accredited DP training instructor, in Singapore.
- Obtained DPO Certificate in June 2004.

COURSE FEES

The Course fees are shown below. The fee includes the cost of the DP Logbook (for Induction Course), Course Manual, Course Certificate, Lunch and Refreshments.

Course	Duration	Fees (inc. VAT)
DP Induction (Basic) Course	5 days	2,000,000 KRW
DP Simulator (Advanced) Course	5 days	2,500,000 KRW
DP Appreciation Course	2 days	Price on Request
DP FMEA Course	2 days	Price on Request

* Payment Information : Bank transfer only (Nonghyup Bank : 904-17-003598)

ACCOMMODATION

Industry-Academic ETRS Center accommodation provides great environment, where students can study and relax.

Booking Procedures :
⦿ Request for the booking form
⦿ Notification of the admission from the Center

Accommodation Fee : 40,000KRW(1 day)
* Bank transfer only (Nonghyup Bank : 904-17-003598)

CONTACT DETAILS

Mr. Cho Il Hyung/Training Manager
E-Mail : choilhyung@kmou.ac.kr
Tel. : +82-51-410-5258

Ms. Kwak MinYeong/Course Administrator
E-Mail : kmy9807@kmou.ac.kr
Tel. : +82-51-410-4487

www.otti.or.kr

LOCATION

⦿ Room No.512, 5F, A4 Research Complex
⦿ 727 Taejong-ro, Yeongdo-Gu, Busan, 49112, Korea

TRANSPORTATION

From Yeongdo Bridge : City Bus No.190(The bus enters into KMOU campus)

From Busan Station : City Bus No.88, 101(Please get off the station near the entrance of KMOU)

From Gimhae International Airport(Airport Limousine) : Gimhae International Airport(Get on) ➡ Jungang-dong(Get off) ➡ City Bus No.88, 101 ➡ KMOU

※ If you get on the bus going to Taejongdae, please get off the station near the entrance of KMOU and then get on the shuttle bus or walk to KMOU.