



ExMC/1483/DV
May 2019

**INTERNATIONAL ELECTROTECHNICAL COMMISSION SYSTEM FOR
CERTIFICATION TO STANDARDS RELATING TO EQUIPMENT FOR USE IN
EXPLOSIVE ATMOSPHERES (IECEX SYSTEM)**

Title: Application received from the NO IECEx Member Body for Mr. David Yang to become an IECEx Approved Assessor

Circulated to: IECEx Management Committee, ExMC

INTRODUCTION

The ExMC WG4 *Technical Reference Group for Assessment of ExCBs and ExTLs* has considered the attached application, received from the NO IECEx Member Body, and recommend the acceptance of Mr. David Yang to become an IECEx Approved Assessor. In light of Mr. Yang's experience and CV, details attached, which indicate his experience in Hazardous Areas, WG4 supports Mr. Yang's application to become an IECEx Approved Assessor.

It is anticipated that his experience will make him most suitable as an assessor in the IECEx05 IECEx Certification of Personnel Competencies (CoPC) Scheme.

*This document is hereby submitted for ExMC approval via correspondence using the IECEx on-line voting system. ExMC Members are requested to submit their vote via the IECEx On-line Ballot System by the closing date **2019 06 18***

Please refer to OD 050 for guidance on the "IECEX On-line voting system."

Kind regards

**Chris Agius
IECEX Secretariat**

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IECEX Assessor Application/Reconfirmation or Additional Details Questionnaire

PERSONAL DETAILS

Name	DaeSeok Yang	Title (Mr, Ms, Dr etc)	Mr.
Full address (including telephone and email)	Jwadongsunhwan-ro 299byun-gil, 22, Samhwan APT 104-803, Haeundae-gu, Busan, South Korea Telephone : +82 10 2047 6096 E-mail : david.yang@trainer.co.kr		
Please indicate all ExCB(s) or ExTL(s) with which you are an employee or contract employee (ie peer assessor)	Trainer Certification		

Availability

The availability of assessors is critical to the bodies being assessed and to the credibility of the Scheme. Your work circumstances, personal circumstances, or health issues that could affect travelling may influence this or your ability to conduct a demanding audit. Please make a realistic assessment of your situation as follows:

Are you available to attend assessments anywhere in the world? Yes, except war or terrorist threat area

Prior to and after assessments will you have sufficient time to respond to issues related to assessments so they can be carried out and concluded in a timely manner? Yes.

Language

The prime language of assessments is English. Hence good English skills, both written and verbal, are essential. Other languages may occasionally be used in addition. Please advise of your skills as follows:

How would you rate your English?	Everyday language	O	Good	Fair	Poor
What other languages can you speak well?	Korean language				

TRAINING AND EXPERIENCE

Auditor training on ISO/IEC 17065, ISO/IEC 17025 or ISO 9001

Clearly identify any lead assessor training

Date	Training Provider	Course Title	Duration
2018.12.03 (Scheduled)	DNVGL	IRCA ISO 9001:2015 Lead Auditor Course	5 days

Employment or other experience for past 10 years relevant to Ex

Dates (from/to)	Employer	Type of Business	Duties
2015.04.21 / Current	Trinor Elisikkerhet AS	Training, Consultancy service / IECEx certification body	Certification manager / Responsible examiner in Trinor certification / Promoting IECEx CoPC
2012.11.07 / 2015.04.01	Hyundai Heavy Industries	Offshore / Ship construction business	Engineering manager / Basic design engineering for offshore electric facilities including Ex equipment
2003.01.02 / 2012.10.26	Samsung Heavy Industries	Offshore / Ship construction business	Engineering manager / Basic design engineering for offshore electric facilities including Ex equipment

IECEx experience for past 5 years

IECEx meetings attended	No
Roles held in IECEx System/ Scheme	Trinor Certification Responsible Examiner
Experience with Systems / Schemes in own country	No
Other	6 times seminars for promotion of IECEx CoPC scheme. More than 50 times CoPC assessments as an examiner. Guide and/or audit 3 new CoPC assessment center in Korea, Vietnam and India.

Assessment/audit experience	Lead Auditor	Auditor	Expert
Number of external assessments/audits carried out in past 5 years	2 Auditor for outsourcing partners		
Number of assessments carried out for the IECEx System / Scheme as ExCB auditor for past 5 years			
Number of assessments carried out for the IECEx System / Scheme as IECEx Assessor for past 5 years (for existing assessors only)			
Number of other external assessments/audits in past 5 years relevant to assessment of Ex certification bodies, Ex testing laboratories or Ex repair facilities			2 Attended as a CB member


Please complete the attached Assessor Competency Table following in this document

Referees/references who may be contacted to ascertain personal attributes and management capabilities relevant to assessment of IECEx Certification Bodies (ExCBs) and Testing Laboratories (ExTLs) - (ISO 19011: 2011 Guidelines for auditing management systems - Clause 7)

Name	Einar Thorén	Title (Mr, Ms, Dr etc)	Mr.
Address (including telephone and email)	Trainor AS, Prestegaten 3-5, 3110 Tønsberg, Norway Tel. : +47 91 00 97 66 E-mail : Einar@trainor.no		

Name	Henrik Eklund	Title (Mr, Ms, Dr etc)	Mr.
Address (including telephone and email)	Trainor Korea, KNN Tower 1704, 30 Centum seo-ro, Haeundae-gu, Busan, South Korea Tel. : +82 51 987 8606 E-mail : Henrik.eklund@trainor.co.kr		

If appointed or re-appointed as an IECEx assessor I will conduct my work to the requisite standard of integrity, competence, impartiality and confidentiality. I certify that the information given in this questionnaire is true and correct.

Signed:  Date: 06th November 2018

Endorsed by IECEx Member Body

On behalf of the NORWAY (country) member Body of the IECEx, I confirm that the details given in this questionnaire have been checked and found to be correct and has our support. This includes a check of the Assessor Competency Table and claimed experience/competency.

Signed:  Date: 6/11 - 18
 Name: ARILD RØED
 Organisation: NEK

NOTE: When applying, please provide a Word version of the application in addition to the signed PDF version.

Assessor Competency Table

Scheme/ body	Competency area	Self-assessed experience/competency level (see below for number)	Evidence, eg work experience; membership of relevant committees or working groups; or research	
IECEx Certified Equipment Scheme – IECEx 02				
Ex CB	Quality systems			
	IECEx QAR			
ExCB/ ExTL	Ex d			
	Ex i			
	Ex p			
	Ex e	Motors		
		Luminaires		
		Rest of equipment covered by standard		
	Ex t			
	Optical radiation			
	Gas detectors			
		Non-electrical		
	Are you on ExMC WG15?	N		
		Y/N		
IECEx Certified Service Facilities Scheme– IECEx 03				
ExCB	Ex Equipment Services			
	Are you on IECEx ExSFC?	N		
		Y/N		
IECEx Certified Persons Scheme – IECEx 05				
ExCB	Ex Personnel Competence	3	2 years working as an appointed CoPC assessor of SIRA certification	
			1 year working as a responsible CoPC examiner of Trainer certification	
	Are you on IECEx ExPCC?	N		
		Y/N		
RATING SCALE: 0 = little or none: 1 = some: 2 = moderate: 3 = high				

Daeseok Yang (David Yang)

E-mail : david.yang@trainor.co.kr

Telephone : +82 10 2047 6096

Address : 22, Jwadongsunhwan-ro 299, Samhwan Apt. 104-803,
Haeundae-gu, Busan, South-Korea

Birthday : 16 May, 1978

Nationality : Korea Republic

Language : English (Fluent), Korean (Mother tongue), Japanese (Starter)



Applying position : IECEx Assessor

I'm 15+ years experienced electrical engineer for oil & gas and offshore construction industries. Most of the time, I worked as an engineering manager for offshore design. During this time, I had many different roles such as, project management, procurement, inspection, commissioning and etc.

Now I'm working for Trainor certification who is certification body of IECEx CoPC scheme. I involved CB works from when we decided to become IECEx certification body. I developed all the assessment methods of Trainor Certification based on IECEx 05 and relevant Operational Documents.

I confident that my character and experiences in Trainor certification as well as Offshore industries are much fitted to IECEx Assessor and I'm sure that successful and fair assessments will be delivered on behalf of IECEx.

CAREER DETAILS

Trainor Elsikkerhet AS : April 2015 ~ Present

Location : Busan, Korea Republic (<http://www.trainor.no>)

Position : Certification Manager

Trainor is a Norwegian Certification Body of IECEx CoPC scheme since 2017. Trainor is biggest Norwegian training, consulting provider as well as certification body of IECEx and committed to electrical safety and explosion protection in global industries for more than 20 years.

I joined to Trainor Korea at establishing phase and conducted roles of Ex instructor and Certification manager. Especially, I have developed assessment measures for Trainor certification based on IECEx OD 503 & 504.

Job Description

- Responsible examiner of IECEx CoPC (Certification of Personnel Competencies)
- Maintaining assessment measures
- Management of question data bank
- Auditor for outsourcing assessment center of Trainor Certification
- Appointed examiner of SIRA certification
- Carrying out classroom training course
 - ✓ IEC 61892 Offshore standards
 - ✓ Earthing in offshore electrical installations
 - ✓ Explosion protection training (Before 2017)
- Course development for classroom courses
- Promoting IECEx CoPC scheme in Korea

Achievement

- Responsible examiner of Trainor certification
- Development of theory and practical assessment measures for CoPC

- Consulting services for offshore earthing & bonding system
- Consulting services for offshore Ex inspection
- Consulting services for design verifications

Basic Design Team of Hyundai Heavy Industries : Nov. 2012 ~ March 2015

Location : Ulsan, Korea Republic (<http://www.hhi.co.kr>)

Position : Engineering Manager of Basic design team

Job Description

- Project principle engineering (Basic design, Technical proposal, Bidding, Estimation and Consulting of technical specification) for the navigation, radio, communication, power and control system of Drillship, Rig and LNG carriers
- Review and define of rules regulations and standards such as SOLAS, Classification society, Authorities, IEC standards 60079 / 61892 and etc.
- Purchasing order and selection of electrical equipment including Ex equipment
- Consulting & Negotiating product requirements with clients
- Electric load analysis in order to estimate total capacities of power facilities
- Single line diagram for principle power distribution system
- Determine budgetary price for purchasing electrical system
- Providing technical guidance to design, installation and inspection teams
- Application of new technologies and Development of new concept system
- Assist inspecting quality of equipment manufacturer

Achievement

- Successful HAZID for LNG fuelled vessels with BV
- Norwegian PSA Audit Team. (PSA, Norsok, NMA and etc. rules)

Project Planning (Basic Design) Team of Samsung Heavy Industries : Aug. 2007 ~ Oct. 2012

Location : Geoje, Korea Republic (<http://www.shi.samsung.co.kr>)

Position : Engineering Manager of Project planning team

Job Description

- Project principle engineering (Basic design, Technical proposal, Bidding, Estimation and Consulting of technical specification) for the navigation, radio, communication, power and control system of Drillship, Semi-Rig, FSO, Special purpose vessels and container vessels.
- Other jobs are same as of Hyundai Heavy Industries

Achievement

- Successfully achieve 10 contracts (abt. 100 vessels) from worldwide bidding and lead the contracts to delivery with good qualities
- Successful 10 million \$ of cost saving TF as a member
- Achieve specific improvements for electrical materials and system
- Successful management of Special purpose vessels planning team as a chief manager of electric part
- Issue of 4 patents for energy saving concept of vessels
- Establish Engineering Excellence Program (EEP) for engineers competencies

Electric Outfitting Design Team of Samsung Heavy Industries : Jan. 2003 ~ July 2007

Location : Geoje, Korea Republic (<http://www.shi.samsung.co.kr>)

Position : Assistant Manager of Electric Outfitting Design Team

Job Description

- Optimized design of Navigation, Radio and Communication System for Drillship, FSO, Container vessels and Crude oil carriers
- Design of effective and user friendly arrangement of electrical equipment

- Design, Arrangement and Inspection of electric equipment including Ex equipment
- Assist design of hazardous area classification for offshore
- Improvement of cost effective design

Achievement

- Successful design of 5 projects (Drillship(1), FSO(1), Ultra size container vessels(2), Oil carrier(1)), Especially, main navigation system designer for Stena drillship
 - Establishment of Standard navigation, radio & communication system design of drillship
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KEY SKILLS

- Presentation
 - Reporting
 - Documentation
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EDUCATION

- Kyungpook National University (bachelor's degree) : March 1997 ~ Feb. 2003
Location : Daegu, Korea Republic (<http://www.knu.ac.kr>)
Major : Electrical & Electronical Engineering
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CERTIFICATE

- IECEX CoPC (Certification of Personnel Competence, IECEX CP SIR15.0048)
 - ✓ Unit Ex 001 – Apply basic principles of protection in Ex atmosphere
 - ✓ Unit Ex 003 – Installation of Ex equipment
 - ✓ Unit Ex 004 – Maintenance of Ex installation
 - ✓ Unit Ex 006 – Testing of Ex installations
 - ✓ Unit Ex 007 – Visual & close inspection of Ex installation
 - ✓ Unit Ex 008 – Detailed inspection of Ex installation
 - ✓ Unit Ex 009 – Design of Ex installation
 - Electrical Equipment for Hazardous Areas (Australia certificate, 16047)
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TRAINING

- Ex Basic course of Trainor
 - GE training course for the electric propulsion system
 - Risk assessment of offshore (Lloyd's register, 2010)
 - HV power distribution and EPS system design (Lloyd's register, 2008)
 - JRC training course of Navigation, Radio, Communication system
 - Furuno training course of Navigation, Radio and Communication system
 - Electrical system design training course of ABS
 - IRCA ISO 9001:2015 Lead auditor course (Scheduled on December 2018)
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