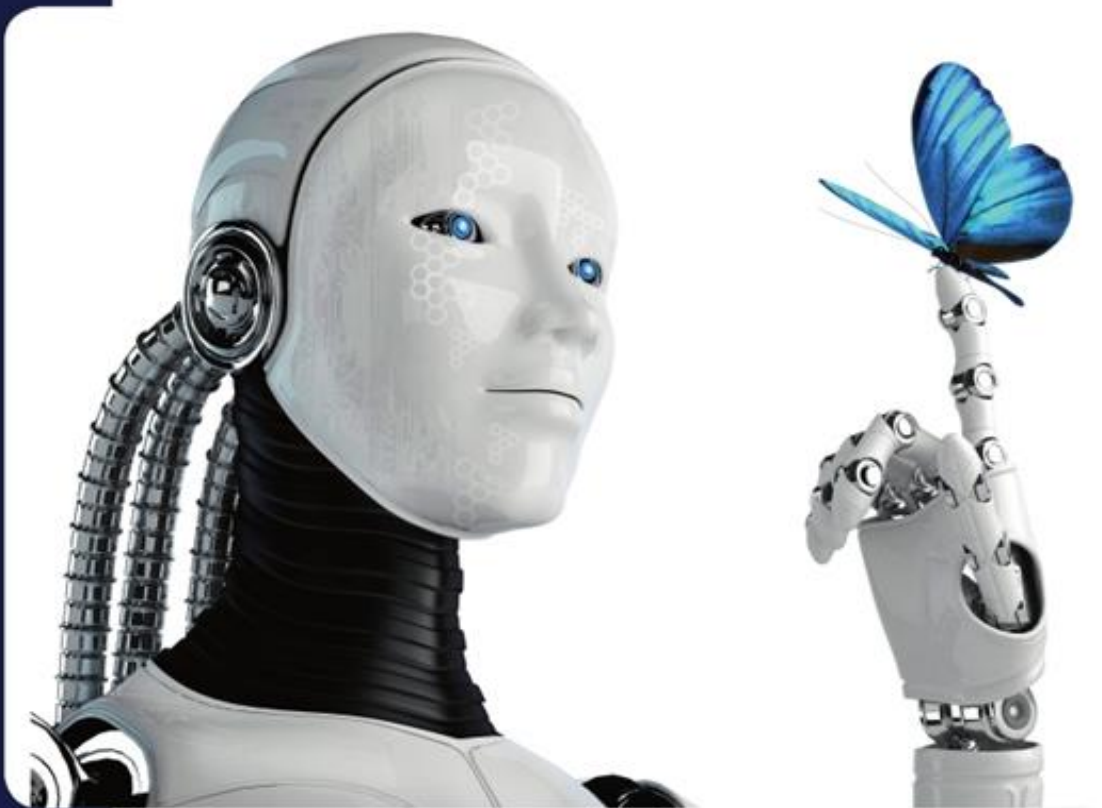


Newsletter January, 2019



ICR



Hot Issue

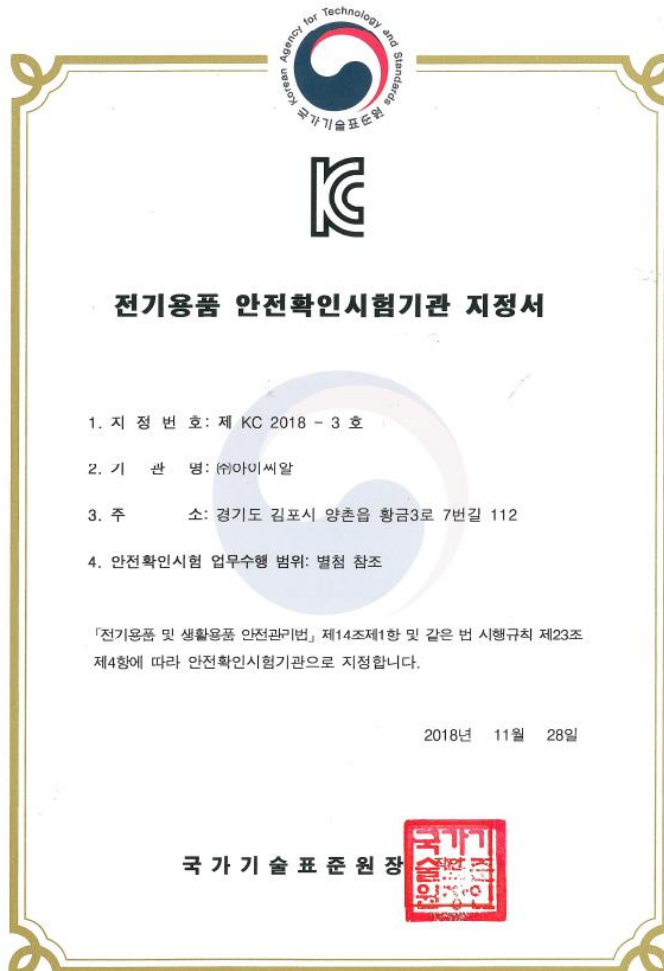
1. **Designation of testing laboratories for KC mark**
2. **MOU agreement with KTL**
3. **Expansion of TUV SUD CARAT accreditation scope as a recognized laboratory**
4. **2019 Auditor training course plan**
5. **Excellent certification auditor award**
6. **2018 Customer satisfaction rating**
7. **IEC 60079-10-1, IEC 60079-10-2 Classification of hazardous areas [GAS, DUST]**
8. **US government, Mandatory communication between vehicles**



Designation of testing laboratories for KC mark



On November 28, 2018, the ICR was designated as a designated testing laboratory for safety identification of electrical equipment.



Designation of testing laboratories for KC mark



The following items are available:

| Classification | Item | Detail items |
|--|-----------------------------|---|
| Audio Video Application | Television | Television |
| | | Television built-in electronic board |
| | | Television built-in electronic table |
| Information-communication office equipment | Monitor | Monitor |
| | | Monitor built-in electronic board |
| | | Monitor built-in electronic table |
| | | Relative height: Exclude under AC 30 V and DC 42V |
| | Digital TV (Smart TV, IPTV) | Digital TV (To receive broadcasting and contents using internet network) |
| | Laptop computer | Laptop computer |
| | | Tablet PC (Screen diagonal length greater than 17 cm and a voice call) |
| | | Relative height: Exclude under AC 30 V and DC 42V |

MOU agreement with KTL



ICR Polska and KTL(Korea Testing Laboratory) Have signed a business agreement for mutual cooperation at KTL Seoul Headquarters on December 20th, 2018.

Both of organizations have agreed to cooperate with each other about the field of **CE certification, System certification and so on.**



Expansion of TUV SUD CARAT accreditation scope as a recognized laboratory.


ICR has **expanded accreditation scope of TUV SUD CARAT(Certification After Recognition of Agent's Testing) as a recognized laboratory** since 2018.11.07.

ICR had been first credited for recognized laboratory of TUV SUD CARAT on August 10, 2016 and **expanded its scope of accreditation for EMC and RF field** to provide a variety of test certification service.



Expansion of TUV SUD CARAT accreditation scope as a recognized laboratory.

CERTIFICATE



Product Service

CARAT
Recognition of Agent's Testing
Certificate No.: CARAT 096702 0003 Rev. 00

ICR Co., Ltd.
112, Hwanggeum 3-ro 7 beon-gil, Yangchon-eup
Gimpo-si, Gyeonggi-do 10048
REPUBLIC OF KOREA

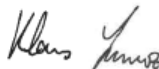

This document proves that the above named laboratory is included in the TÜV SÜD PRODUCT SERVICE Division (TPS) Listing of Recognized Laboratories and is qualified in compliance with the TPS CARAT program for the mutually agreed product categories and/ or standards.

With this certificate TPS confirms that the laboratory has been audited and continues to meet the CARAT program requirements which are based on standards for certification and testing.

Although these requirements include the current revision ISO/IEC 17025 this document is only for use in the TPS CARAT program and does not indicate any certification or accreditation.

Issued: 2018-11-07
Expiration Date: 2019-07-25

For the Executive Committee of
TPS:

Klaus Lorenz

Page 1 of 1
TPS makes no representations or warranties, express or implied, regarding any aspect of this Laboratory's business or services or that this Laboratory's services will achieve any specific results in any TPS investigation. TPS does not assume or undertake to discharge any liability of this Laboratory or any other party. TPS assumes no liability which may result directly or indirectly from assessment or Certification of this Laboratory, the conduct of a failure to conduct inspections, incorrect Certification, nonconformity or failure to discover nonconformity with Program Requirements, cancellation of this Certificate or withdrawal of this Laboratory's inclusion from any TÜV SÜD PRODUCT SERVICE DIVISION Listing or Directory prior to the expiration date of this Certificate. This Laboratory bears sole responsibility for its provision of services.



Expansion of TUV SUD CARAT

accreditation scope as a recognized laboratory.

| Category | Standard | Details |
|---------------|---|--|
| Safety (OFF) | EN 60950-1, UL 60950-1 CAN/CSA-C22.2 NO. 60950-1 | All Clauses |
| Safety (MEAS) | EN 61010-1, UL 61010-1 CAN/CSA-C22.2 NO. 61010-1 | All Clauses |
| Safety (TRON) | EN 60065, UL 60065, CAN/CSA-C22.2 NO. 60065 | All Clauses |
| Safety (HOUS) | EN 60335-1, EN 60335-2-9, EN 60335-2-14, EN 60335-2-15, EN 60335-2-16, EN 60335-2-21, EN 60335-2-23, EN 60335-2-32, EN 60335-2-45, EN 60335-2-54, EN 60335-2-65, EN 60335-2-80, EN 60335-2-84, EN 60335-2-98 UL 1647, UL 499, UL 508, UL 508A, UL 508C CAN/CSA C22.2 NO.113, CAN/CSA C22.2 NO.14, CAN/CSA C22.2 NO.72, CAN/CSA C22.2 NO.68 | All Clauses |
| Category | Standard | Details |
| EMC | EN 55011, EN 60601-1-2 EN 55014-1, EN 55014-2 EN 55015, EN 61547 EN 55022, EN 55032 EN 55024, EN 61000-3-2 EN 61000-3-3, EN 61000-6-1 EN 61000-6-2, EN 61000-6-3 EN 61000-6-4, EN 61326-1 EN 61326-2-1, EN 61326-2-2 EN 61326-2-3, EN 61326-2-4 EN 61326-2-5, EN 61326-2-6 | All Clauses |
| Category | Standard | Details |
| RF | EN 300 328 V2.1.1 EN 301 893 V2.1.1 EN 300 330 V2.1.1 EN 300 220-1 V3.1.1. EN 300 220-2 V3.1.1 EN 302 502 V2.1.1 EN 62311:2008 EN 62479:2010 | All Clauses |
| | EN 300 440 V2.1.1 | All clauses except for carrier frequency above 20GHz |

2019 Auditor training course plan



| No. | Date | Course | Day | Note |
|-----|---------------|--------------------------------------|-------|----------|
| 1 | 2019-01-17~31 | AU (Audit) / TL (Team lead) | 2 / 1 | expected |
| | | QM (Quality Management System) | 2 | |
| | | EM (Environmental Management System) | 2 | |
| | | FS (Food Safety Management system) | 2 | |
| | | OH (OH&S Management System) | 2 | |
| 2 | 2019-03-05~21 | AU (Audit) / TL (Team lead) | 2 / 1 | expected |
| | | QM (Quality Management System) | 2 | |
| | | EM (Environmental Management System) | 2 | |
| | | FS (Food Safety Management system) | 2 | |
| | | OH (OH&S Management System) | 2 | |
| 3 | 2019-05-14~30 | MD (MD Quality Management System) | 2 | expected |
| | | AU (Audit) / TL (Team lead) | 2 / 1 | |
| | | QM (Quality Management System) | 2 | |
| | | EM (Environmental Management System) | 2 | |
| | | FS (Food Safety Management system) | 2 | |
| | | OH (OH&S Management System) | 2 | |
| 4 | 2019-09-16~26 | AU (Audit) / TL (Team lead) | 2 / 1 | expected |
| | | QM (Quality Management System) | 2 | |
| | | EM (Environmental Management System) | 2 | |
| | | OH (OH&S Management System) | 2 | |
| 5 | 2019-11-12~28 | AU (Audit) / TL (Team lead) | 2 / 1 | expected |
| | | QM (Quality Management System) | 2 | |
| | | EM (Environmental Management System) | 2 | |
| | | FS (Food Safety Management system) | 2 | |
| | | OH (OH&S Management System) | 2 | |

2019 Auditor training course plan



- **If the courses are not marked as “Finalized” on note section, the course schedule can be adjusted. The courses might be canceled due to situation.**
- **The finalized course schedule will be posted on the ICR homepage(icrqa.com) one month before.**

Excellent certification auditor award



Byeong-Gil Ha, a general manager of ICR, is selected by Korea Accreditation Board(KAB) as an Excellent Certification Auditor on December 19, 2018.

The awards were selected as a comprehensive evaluation of regulation/system understanding, core analysis ability, rationality of application of standards, certification effectiveness, and audit contribution.



2018 Customer satisfaction Rating



- A customer satisfaction rating for 2018 was conducted.
- For total 13 questions, reliability was 95% for 300 samples (sample rate 2%)
- The survey showed 90+ satisfaction in all questions.
- ICR appreciates customers' encouragement and consideration in 2018, and will continue to give careful attention to customers' feedbacks in 2019.

IEC 60079-10-1, IEC 60079-10-2

Classification of hazardous areas

[GAS, DUST]



What is the classification of hazardous area?

In Korea, according to the Industrial Safety and Health Law, explosion hazard is classified in Process Safety Management (PSM) to prevent explosion, fire, and chemical leakage of chemical related equipment.

IEC 60079-10-1 and IEC 60079-10-2 are used to distinguish the explosive hazardous area.

Hazardous areas should be managed and applied to all locations and facilities where explosions may occur and are classified as follows

Classification service of explosive hazard place according to IEC 60079-10-1, IEC 60079-10-2

Classification of hazardous areas

[GAS, DUST]

- IEC 60079-10-1 (Classification of areas - Explosive gas atmospheres)
- IEC 60079-10-2 (Classification of areas - Combustible dust atmospheres)
- Zone 0(GAS) and Zone 20 (DUST) : A place in which an explosive atmosphere, is present continuously, or for long periods or frequently.
- Zone 1(GAS) and Zone 21 (DUST) : A place in which an explosive atmosphere, is likely to occur in normal operation occasionally.
- Zone 2(GAS) and Zone 22 (DUST) : A place in which an explosive atmosphere, is not likely to occur in normal operation but, if it does occur, will persist for a short period only.



IEC 60079-10-1, IEC 60079-10-2

Classification of hazardous areas (GAS, DUST)

The range of services provided by ICR is as follows.

- Hazardous area classification according to IEC 60079-10-1 and IEC 60079-10-2
- Establishment and consulting of explosion proof products
- Explosive risk assessment and testing
- Installation inspection of electrical and non - electrical equipment in hazardous areas.
- Ex Certification of electrical and non-electrical equipment

Classification service of explosive hazard place according to IEC 60079-10-1, IEC 60079-10-2

US government, Mandatory



communication between vehicles

- The US Highway Traffic Safety Administration (NHTSA) has announced that it will mandate V2V (vehicle-to-vehicle) communications capability for all new vehicles by 2023 in a recently released regulation. It is not yet a formal requirement, but the bill will come into force in 2019 and will be mandatory for all new vehicles by 2023. All vehicles will have a DSRC system and will be able to transmit basic safety messages (BSM) to each other.
- The BSM consists of data such as vehicle speed, brake condition, and travel direction. NHTSA requires that only essential data be transmitted to each other to mitigate privacy concerns. In addition, the regulations include a requirement that security and software updates be received wirelessly. However, it also specifies that consumer consent is required. NHTSA also has requirements for communication security by installing a firewall between the vehicle's V2V module and other communication functions.
- The US government is trying to activate V2V communications as early as possible by presenting integrated standards. In addition, the V2V is recommended to create a platform for all drivers to provide a safe driving environment.



- Source : GLOBAL AUTO NEWS



www.icrqa.com

ICRO-31/R20161125 본 문서는 법률 제 14088호 저작권법의 보호대상이며, ICR의 지적 자산으로 불법 편집 및 복사를 금합니다.

Address :3611, Hagun-ri, Yangchon-eup, Gimpo-si,
Gyeonggi-do , South Korea (10048)

Company Id No : 110111-243147
Tax & VAT Id No : 105-86-35114

Tel : (+82)2-6351-9001~5 / Fax : (+82)2-6351-9007
Home page : www.icrqa.com