# Newsletter September, 2021 ICR





### **Hot Issue**

- 1. SEMI Safety Standards Education 2021
- 2. ISO 37001 Anti-bribery management systems
- 3. Introduction of battery heater durability tester
- 4. Documents required for FCC Certification Application



### SEMI Safety Standards Education 2021



■ ICR participated in 'SEMI Safety Standards Education 2021' to introduce the contents of standards and examples of evaluation to semiconductor manufacturers based on their expertise and technology in SEMI Evaluation.

### SEMI 안전표준교육 2021

2021.07.15(목) - 16(금) | 온라인 라이브

심화과정 - 7월 16일(금)		
9:00 am - 9:40 am		반도체 제조장비 배기평가 가이드라인 Part 1
9:40 am - 9:50 am	I C R	Break
9:50 am - 10:40 am		반도체 제조장비 배기평가 가이드라인 Part 2
10:40 am - 10:50 am		Break
10:50 am - 11:30 am		배기성능 평가 절차 및 사례 Part 1
11:30 am - 11:40 am	ICR	Break
11:40 am - 12:30 am		배기성능 평가 절차 및 사례 Part 2

### SEMI Safety Standards Education 2021



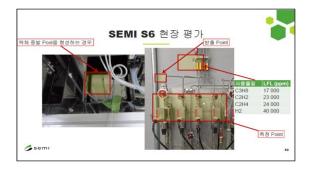
■ ICR provided training on 'SEMI S6 - Safety Guidelines for Exhaust of Semiconductor Manufacturing Equipment and Exhaust Performance Evaluation Procedures and Cases' and focused on easy understanding of standards and test procedures.









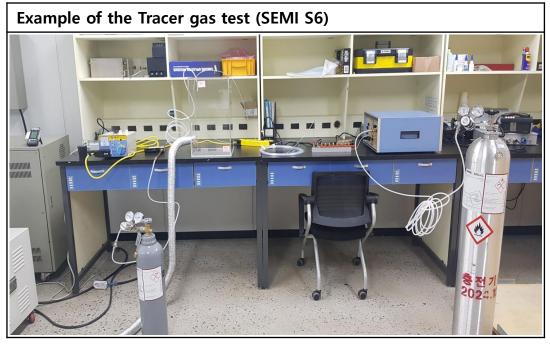




### SEMI Safety Standards Education 2021



- Experienced engineers at ICR provide services by conducting SEMI evaluation and testing <Tracer gas test (SEMI S6), Material use efficiency (SEMI S23), Voltage sag test (SEMI F47), Electrostatic test (SEMI E78), etc.> for semiconductor manufacturing equipment.
- ICR Engineers (SEMI evaluation and testing)
  - Hyunjun Park (<a href="mailto:phj@icrqa.com">phj@icrqa.com</a>), Seokho Lee (<a href="mailto:seokho@icrqa.com">seokho@icrqa.com</a>),
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## ISO 37001 Anti-bribery management systems



#### Anti-bribery management systems?

ISO 37001:2016 is an international standard for anti-bribery management systems. The standard was established in 2016 to address the bribery in the public, private and not-for profit sectors.

#### **■** Effect of the introduction of ISO 37001

Even if it is conform to anti-bribery management system requirements, the risk of bribery cannot be completely eliminated. However, introducing the standard is helpful to implement reasonable measures to prevent, detect, and respond to bribery.

#### **■** Who needs?

As the demand for ESG grows, the ISO 37001, anti-bribery management systems can be considered as one of the ways to respond to corporate social responsibility and governance. Currently, it is being introduced by public organization, pharmaceutical organization, financial organization and organization that are commissioned to operate public projects.

#### **■** Status of ICR

Currently, ICR has completed document assessment for accreditation scheme expansion from the Korea Accreditation Board(KAB) to provide the anti-bribery management system certification audit service. ICR is committed to providing the certification audit services within this year.

**T** Inquiries

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# Introduction of battery heater durability tester



#### **■ TRENDS**

- Currently, most **electric vehicles use lithium-ion batteries.**The problem is that when the temperature drops in the middle of winter, electrolytes harden, which greatly shortens the driving distance of electric vehicles and takes a long time to charge them.
- To address this problem, a battery heater system is being developed that makes the battery at its optimal temperature.

#### **■** Battery Heater Durability Tester

- In line with the customer's request, ICR introduced the battery heater durability tester in June and has been operating the service since July.



Specification		
1) Coolant temperature	(-30 ~ 90) °C (1.0°C/min)	
2) Flow	5 ~ 120 LPM	
3) Pressure measurement	(0 ~ 10) Bar(Inlet, Outlet Measure )	
4) Environmental chamber	(-40 ~ 150) °C	
	ard test possible (Multi-valve, COD or less battery heater test, etc.)	

#### **T** Inquiries

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### **Documents required for FCC Certification Application**

- List of required information and documents when filing for FCC certification
  - **1.** Block Diagram
  - 2. schematics
  - **3.** Part list(Bill of Material)
  - 4. Manual
    - Warning statements and service center information must be included
  - **5.** Label sample & Location
    - Labels to be used on actual products and label placement locations.
      - Labels must include FCC ID.

  - 6. Operating DescriptionDescription of circuit and mechanical operation situation
  - **7.** External Photo
    - In order to be able to identify the size and shape, a photograph of the exterior from various angles and an auxiliary tool to know the size are required.
  - 8. Internal Photo
    - Need a picture of the inside PCB and configuration as a way to know the size.
  - **9.** Test Setup Photo
    - The actual test site and setup state are expressed.

# Documents required for FCC Certification Application

- List of required information and documents when filing for FCC certification
  - 10. Agent Authorization Letter
  - 11. Confidential Request Letter
    - Since all data is disclosed in the FCC, the confidentiality period can be setup to 120 days when applying for the first certification.
  - 12. Application
    - Fill out an application under form 731 of the FCC application.
  - 13. FCC ID & FRN number
    - You can apply on the FCC site.
  - **14.** Information of the person in charge of the application company registered with the FCC
    - When applying for FCC certification, it is necessary to fill out the information of the person in charge registered with the FCC.

**T** Inquiries

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