



## **iNARTE ESD Engineer Certification Open Book Examination**

### **Details of Exam**

**Date:** 18 August 2017

**Time:** 0800 (Registration)  
0830 - 1230 (Exam)

**Venue:** Everfeed Technology Pte Ltd

### **Exam Format**

- Totals 50 of questions.
- All questions are Multiple Choice Questions or Objective Questions.
- Option 1: Online Exam (candidate bring notebook with internet connection) – **preferred.**
- Option 2: Hardcopy Exam.

### **Items to Bring**

- Identity card with Photo (Name on Identity card must match registered name)
- Electrostatic Standards
- Tutorial Notes
- Reference Books
- Scientific Calculator
- Laptop
- Pencils and Eraser

### **Rules and Regulation**

- Fees must be paid before the examination can be taken.
- *iNARTE* certified individuals must show current membership in order to gain entrance to the examination.
- Candidates are required to bring their identity cards and place them at the top left-hand corner of their desks at the commencement of the examination.
- Candidates are **NOT allowed** to bring hand phones, nor any camera function mobile devices into the examination hall.
- No talking or collaboration between candidates is allowed in the examination hall.
- Sharing of reference materials brought by candidates is not permitted.
- Internet connection and email are permitted during the exam, but **strictly no** 3<sup>rd</sup> party communication.
- Personal comfort breaks during the exam will be allowed to only one person at a time.

### **Documents to submit after Exam**

- Application Form
- Resume/Detailed ESD work history & Employment Letter
- Education transcripts & certificates from colleges and/or universities
- 3x Referees, one of which must be Supervisor
- Past and present employment letter

### **What if I fail the exam?**

Any candidate who achieves less than 70% will be allowed to retake the papers as many times as they wish. The restrictions on retaking exam papers are that there must be a 90 days waiting time between attempts. Candidates must take no longer than three years to achieve 70%. Each time the entire exam or part of it is retaken, an examination-processing fee is required.

### **FAQ**

#### **Q - How much experience is required?**

For ESD Engineer certification - 9 years. Education may count for some experience.

#### **Q - How long is the exam?**

A - The exam is given in 4 hour. You are allowed a maximum of 4 hours per exam.

#### **Q - How many questions are on the exam?**

A - Exam consists of 50 questions. You are required to answer all questions on the exam. You must answer 35 of the 50 correctly.

#### **Q - What score do I have to get to pass?**

A - Minimum score required is 70% overall. You can miss 15 of 50 questions on the exam.

#### **Q - If I fail the exam, how long do I have to wait before taking it again?**

A - 90 Days.

#### **Q - Can I use a computer during the exam?**

A - Laptops are allowed, but you must provide your own battery power & internet. No power outlet or data/internet connection is provided.

#### **Q - When will I know my exam results?**

A - The examinations will be graded at *iNARTE* HQ and you will be advised of your scores within 30~45 business days.

### **ESD Engineer Examination Subject**

- *ESD Program Design & Management*



- ESD Loss Analysis
- ESD Theory
- Math/Physics
- Safety
- Standards/Specifications
- Terminology
- System Test & Measurement
- Workstations
- Flooring
- ESD Shielding Analysis
- Manufacturing/Repair Facility
- Auditing Plant Equipment ESD
- Control & Evaluation
- Clean Room Equipment & Material Control
- Body Charge Evaluation & Control
- Garment Control & Evaluation
- Manufacturing Plant Handling Procedures
- ESD Control Material In-Field Testing
- Production Aids & Tool Evaluation
- Ionization Devices & Systems
- Material Test & Measurement
- In Field ESD Controls
- Device Sensitivity Test & Measurement
- Grounding Technology
- Laboratory Test & Analysis of ESDC Packaging Materials

#### Malaysia

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### **ESD Engineer Certification Criteria**

Candidates are to provide specific record of 9 years or more of experience in engineering work. If not, an Associate Engineer certification will be awarded until 9 years of experience is gained.

### **What if I fail the examination?**

- Any candidate who achieves less than 70% will be allowed to retake the papers as many times as they wish.
- The restrictions on retaking exam papers are that there must be a **90** days waiting time between attempts.
- Candidates **must take no longer than three years** to achieve 70%,
- Each time the entire exam is retaken, an examination processing fee is required.

### **Contact Information**

#### Singapore

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## Appendix 1

ESD Examination measures knowledge in ESD fundamentals and is an open book examination. Open book DOES NOT include internet resources or web browsing. Any reference material used is subject to evaluation or rejection by either the administrator of the exam or iNARTE officials.

Applicants have 4 hours only to complete this exam. If you complete the exam before the 4 hour time period, you may review your responses.

The examination includes 50 exam items. All items are graded and any questions left unanswered are graded as incorrect.

### Exemplar Global Non-Disclosure Agreement

Read the following terms of this Agreement carefully. The applicant will sign and date the examination to signify their consent to the following.

This Non-Disclosure Agreement (the “Agreement”) is entered into between the examinee (“You”) and Exemplar Global, Inc. (“Exemplar Global”) along with its subsidiaries as of the date the examinee registers for the examination (the “Effective Date”).

The examination (“Exam”) you will take is **confidential** and is protected by the Uniform Trade Secret Act. The exam is made available to You solely for the purpose of assessing knowledge competencies as stated in the personnel certification scheme requirements.

1. **Confidential Information.** The content of the Exam, including without limitation, questions, answers, and the responses You choose, as well as any communication regarding or related to the Exam, including oral communication, is Exemplar Global’s confidential information (“Confidential Information”). Any disclosure of Confidential Information is a violation of this Agreement and could compromise the integrity and security of the examination program. Exemplar Global makes exams available to You solely for the purpose of demonstrating knowledge competency in the content area referenced by the title of the exam. You are expressly prohibited from disclosing, discussing, publishing, reproducing, copying, selling, posting, downloading, or transmitting any Confidential Information, in whole or in part, in any form or by any means, oral or written, electronic or mechanical, for any purpose.

2. **Privacy Notice.** By taking this Exam, you agree that Exemplar Global and any Exam provider may share your information with each other, including personal information, in order to administer the Exam(s), to improve the testing program and experience, and to facilitate statistical analyses. Exemplar Global agrees that the Exam results and/or Score reports will be shared with You, the examinee, unless You request the results and/or reports to be disclosed to a third-party. To learn more about Exemplar Global’s Governance Policies related to Confidentiality (G15) and Records (G11), please email [info@exemplarglobal.org](mailto:info@exemplarglobal.org)

3. **Certification Revocation.** You may be prohibited from taking any Exam, and/or may be decertified from the Personnel Certification scheme if you violate this Agreement or engage in any misconduct. Exam proctors are



authorized to take immediate and appropriate measures against anyone who violates testing rules. This policy is enforced to ensure the integrity of the Exam and Exemplar Global examination programs. Should You be found in violation of this Agreement any and all funds associated with the registration for this exam are forfeit and **no refunds**, without exception, will be given.

Examples of misconduct and/or misuse of the Exam include but are not limited to:

- Fraudulently impersonating another while taking the Exam;
- Providing or accepting improper assistance;
- Disseminating actual Exam content, including the responses You chose for the questions, by any means including web postings, formal or informal test preparation or discussion groups, reconstruction through memorization or any other method
- Possession of non-authorized items during the Exam;
- Using unauthorized materials (including brain-dump material and/or unauthorized publication of Exam questions with or without answers) to prepare for the Exam;
- Making notes of any kind during the Exam outside this exam booklet or the answer sheet
- Removing or attempting to remove Exam material (in any format);
- Intentionally causing a disturbance of any kind during the Exam; and
- Modifying and/or altering the results and/or score report for this Exam or any other Exam record.

