



APPLICATION for ASSOCIATE CERTIFICATION RENEWAL by
**INTERNATIONAL ASSOCIATION FOR RADIO
 TELECOMMUNICATIONS AND ELECTROMAGNETICS, INC.**
 840 Queen Street, New Bern, NC 28560 1-800-89-NARTE or (252) 672-0200

FOR OFFICE USE ONLY	
Certification Number: _____	Date: _____
Test Type: _____	Score: _____

Name _____
(First) (Middle Initial) (Last)

Current Mailing Address _____

City _____ State _____ Zip _____ Citizen of _____

Phone (Work): _____ (Home) _____

Date of Birth _____ Sex M F Email: _____

Where Employed: _____

Job Title: _____ Grade or GPA: _____

I hereby make application iNARTE for Renewal of my Associate Certification as: Engineer, or Technician.

I hereby authorize iNARTE, in accordance with iNARTE's privacy policy www.narte.org/h/privacy.htm to publish my name, city, state, country and any certification it may issue to me in all of its directories or registries. In addition, iNARTE is authorized to confirm my certification to inquiries on my behalf. I have read and agree to abide by the iNARTE Code of Ethics as published at www.narte.org/h/codeofethics.asp.

 Signature of Applicant Date

Reference: (One Reference is required from a manager or supervisor. If in continuing education, from a professor)
 Name of Referee Telephone Number or E-mail Contact

1. _____

Payment Non-refundable renewal fee of US\$50.00

Check enclosed Charge Card No.: _____
MC VISA AMEX CVV # Exp. Date

 Signature

 Billing Address, if different from above State Post/Zip Code Country



INTERNATIONAL ASSOCIATION FOR RADIO TELECOMMUNICATIONS AND ELECTROMAGNETICS, INC.

840 Queen Street, New Bern, NC 28560 Phone: (252) 672-0200. Fax (252) 672-0111

Applicant's Name _____

Address: _____

Date: _____

Dear _____ (Name of Reference)

I have applied for Renewal of my Associate Certification in the field of _____, and request that you serve as the references on my application. If you are willing to do so, please provide the information requested on this form and return the form to iNARTE at 840 Queen Street, New Bern, NC 28560. The certification requirements for Associate Engineer and Technician are quoted below and I have enclosed a copy of my education experience.

Thank you for your help. Please send the completed forms to iNARTE at your earliest convenience. iNARTE will not process my application until this reference form is received

Signature of Applicant
Date of Application to iNARTE _____

EDUCATION REQUIREMENTS FOR ASSOCIATE CERTIFICATION AS AN ENGINEER

- Graduation from a four (4) year degree curriculum at an iNARTE Accredited University, School or Institute; and
- Achieve a final Grade Point Average, GPA, of 3.0 or equivalent; or
- Pass the iNARTE Associate Engineer examination with a score of 70%

EDUCATION REQUIREMENTS FOR ASSOCIATE CERTIFICATION AS A TECHNICIAN

- Graduation from a two (2) year degree/diploma curriculum at an iNARTE Accredited University, School or Institute; and
- Achieve a final Grade Point Average, GPA, of 3.0 or equivalent; or
- Pass the iNARTE Associate Technician examination with a score of 70%

RENEWAL REQUIREMENTS FOR ASSOCIATE CERTIFICATION

- Provide one letter of reference from an immediate manager or supervisor, or:
- Provide one letter of reference from a tutor, professor or department head, if in continuing education.
- Provide a further five (5) original questions and answers per the attached format.



iNARTE ASSOCIATE CERTIFICATION REFERENCE FORM Page 2– This Form May Be Duplicated

Name of Applicant _____

Do you know the applicant well? _____ Casually? _____ How Long? _____

What is your professional relationship to the applicant? _____

Has the applicant been educated as an Engineer _____ or Technician _____ or Both _____

Check the areas for which this applicant qualifies:

_____ EMC _____ ESD _____ Product Safety

Please evaluate the applicant in the space below:

ENG	TECH	
_____	_____	Performing Exceptionally Well
_____	_____	Performing Well
_____	_____	A Marginal Performer
_____	_____	Not Performing to Requirements

Engineer or Technician? In a nutshell:
Engineers know the math and the physics of their field Technicians know the instruments and test setups.
Engineers need good writing and verbal skills. Technicians need to know the pitfalls of real measurements. Applicants do not have to be competent across the whole spectrum but do have to be competent in the fundamentals as well as the specifications that apply to their particular specialty.

Additional comments:

Your name (print)

Your Company, University, School or Institute

Your Position

Signature

Date



ASSOCIATE CERTIFICATION QUESTION SUBMISSION FORM

The following format must be used. This form may be copied and used for each question.

SAMPLE QUESTION, (Applicable for EMC)

According to ISO 11452-1 (1993), for both substitution and closed-loop leveling methods, (CW and AM) the test severity levels are expressed in terms of equivalent _____. *Hint: A test severity of 20 V/m means a CE or AM test will be conducted for 28 V/m peak value.*

- a. Voltage.
- b. Current.
- c. RMS.
- d. E-Field.

Answer: C Time: 5 Minutes Reference: ISO 114521-1. '93 p.9 For: E & T

1. Question: (Try to avoid any possible misinterpretations of the question. If question is negative, i.e., "Which item does **NOT** include the following?", the **NOT** should be bolded and capitalized.)

2. Answers: (Only 4 answers) {Include all calculations if the answer is calculated}

- A.
- B.
- C.
- D.

3. Correct Answer: _____

4. Applicability Engineer Technician Both

5. Time required answering the question, (estimate): _____ Minutes

6. Reference(s) _____

Calculation (If answer is to be derived, show all calculation steps required to achieve answer)

7. Category (See below) _____

CATEGORIES OF QUESTIONS

Each discipline is segregated into a number of question categories. A list of these categories is shown on the following page. All question submitted are to be allocated to one of these categories.

SUBMISSION OF QUESTIONS

Questions are to be submitted as both hard copy and in electronic format. Electronic format may be submitted on diskette or via email, (contact information will be provided). All equations, calculations, diagrams and schematics are to be included in the electronic submission.

Notes on Question Content

- The questions you submit must be in your own words.
- Questions that relate to real-life work situations or problems are desirable (see example above).
- Questions should be challenging, yet answerable by a knowledgeable and experienced practitioner.
- Your questions should be geared toward the certification type for which you are applying (Technician or Engineer).



INARTE QUESTION CATEGORIES FOR EACH DISCIPLINE

Electromagnetic Compatibility (EMC)	Electrostatic Discharge Control (ESD)	Product Safety Engineering (PSE)
Bonding Grounding Shielding Interface Control Filtering Materials and Special Devices Conducted Interference Radiated Interference Military Specifications/Standards/Handbooks EMC Test Plans Test Equipment Test Facilities Safety Terminology Mathematic Spectrum Analysis ESD EMP Lightning Protection Inter-system and Intra-system Design Equipment Design EMI Prediction EMI Analysis Field Theory Antennas Filter Theory	ESD Program Design & Management ESD Loss Analysis ESD Theory Math/Physics Safety Standards/Specifications Terminology System Test & Measurement Workstations Flooring ESD Shielding Analysis Equipment Design Intersystem & Intrasystem Design Body Charge Evaluation & Control Materials Test & Measurement ESD Prediction (Devices & Systems) ESD Analysis (Devices & Systems) Manufacturing/Repair Facility Evaluation, Survey & Auditing Plant Equipment ESD Control & Evaluation Clean Room Equipment & Material Control Garment Control & Evaluation Mfg Plant Handling Procedures ESD Control Material In-Field Testing Production Aids & Tool Evaluation Ionization Devices & Systems In Field ESD Controls Device Sensitivity Test & Measurement Grounding Technology Laboratory Test & Analysis of ESDC Packaging Materials	Connection to supply Isolation of supply Mechanical hazards Earthing Types of Insulation Protection against electrical shock Resistance to fire Fire hazards Limits on fuel Limits on heat Insulation damage Creepage and clearance Inter system and intra system design Equipment design Hazard analysis Risk assessment Design review Legislation US,EEC and International Military and Civil Electrical Safety Standards Safety tests Assessment authorities Competent Bodies Safety certification Declarations of Conformity Operating and maintenance instructions and handbooks

