MOTOROLA *SOLUTIONS*

ETA Communication Site Installer (R56) Exam

ETA's Certification for Communication Site Installer (R56) requires candidates to pass an industry-standard proctored exam:

The skills and knowledge certified by this exam are represented be the competencies as identified at the URL below:

http://www.eta-i.org/comps/R56_comps.pdf

Purpose of the Certification Preparation Guide

The intent of this guide is to set expectations about the content and context of these certification competencies and exams. Please review this guide in its entirety to gain a thorough understanding of what is required to achieve this certification. Successful examinees are those who will have met the following preparation points:

- Fulfilled the requirements outlined in the "Examination Preparation" section
- Familiarized themselves with and studied the "Examination Content"

If you have not completed these suggested preparation points, we strongly advise against your taking the exam until you have done so. **Even among seasoned industry veterans, there is a significantly high rate of failure for examinees who do not follow these suggested preparation points.**

Target Audience

These exams are targeted at those individuals involved with the installation of Motorola Solutions systems.

- Motorola employees
- Channel partners
- Motorola approved (or invited) attendees

Examination Preparation

To sit for this exam, all of the following learning and experience requirements must be met:

The requirements associated with the certifications are in the Table below. Training and Documentation is available at the Motorola Solutions learning portal at https://learning.motorolasolutions.com.

Requirements: Table 1

	How to Certify/Recertify
Certified R56 Before 31 DECEMBER 2012 Recertify NOW, at, or within the four- year term	Contact ETA, C.A. proctor, and sit for R56 re-certification exam upon completion of the following: R56 Prep Guide and ETA Competencies review Review R56 Manual 68P81089E50-8 Complete either NST925-5 R56 Standards Update 2016 Course or NST925/RTW050 Site Installation Practices Workshop (R56)
Certified R56 After 1 JANUARY 2013, Recertify within the four – year term.	No ETA R56 action required at this time. R56 Prep Guide and ETA Competencies review Review R56 Manual 68P81089E50-8 Take NST925-5 R56 Standards Update 2016 Course
New to R56 certification or expired past the 4 year term	Review R56 Manual 68P81089E50-8 Take NST925-2 Introduction to R56 Course Complete NST925 or RTW050 Site Installation Practices Workshop (R56) Course R56 Prep Guide and ETA Competencies study Contact ETA, C.A. proctor, and sit for R56 certification exam if the attempt was not part of the workshop

Suggested Education and Work Experience:

- An Associate's Degree or Bachelor's Degree in Information Technology, Electrical Engineering, Computer Science, Computer Engineering, or other related field of study; alternatively, an industry network Certification with one year of related work experience
- Two or more years of experience in the field working with Motorola Solutions Radio subscribers and system

Examination Content

Content associated with the exam is fully documented in the CSII/R56 INSTALLER Competency Document. This Competency Document is available and should be fully reviewed before attempting the exam at the URL below:

.http://www.eta-i.org/comps/R56_comps.pdf

Sample Test Items

1. When connecting a conductor, grounding electrode conductor, communication bonding backbone conductor and ground bus conductor to the MGB or SSGB, which of the following methods of connection is acceptable?

    A. Insulation piercing connectors.

    B. Self-tapping or sheet metal type screws

    C. two-hole lugs

    D. Tinnerman or similar type clips

    E. Aluminum connection devices.

2. Which is **not** an advantage of a Dry Chemical Extinguishing agent?

    A. Fast flame knockdown characteristics allow the dry chemical to find its way in and around nearly everything in the vicinity of the discharge.

    B. Dry chemical agents have non-corrosive characteristics

    C. Normally have an ABC rating and are safe for use on structural, fuel, and energized electronic equipment fires.

    D. No adverse environmental impact.

3. To achieve maximum efficiency of parallel ground rods Spacing, should be _____ Ground Rod Length

    A. 1X

    B. 2X

    C. 3X

    D. 4X

4. When grounding conductors are installed and routed which of the following are taken into consideration *"(select THREE)."*

    A. Length

    B. Support

    C. Weight

    D. Protection

5. Which is **not** a requirement for branch circuits that exit the equipment shelter for use with outdoor equipment?

    A. All outdoor electrical equipment shall be protected from the environment and sealed from the elements.

    B. All outdoor receptacles shall be Ground-Fault Circuit-Interrupter (GFCI) type receptacles or supplied from GFCI breakers.

    C. Flexible conduit can be used for all exterior circuit branches without exception.

    D. All exterior wall penetrations through which conduit passes shall be sealed.

    E. Exterior panelboards, receptacles and switches shall be housed in NEMA Type 3 or Type 3R housing.

6. What is the maximum distance a 2/0 AWG ground bus conductor can be routed?

    A. 33 ft

    B. 41 ft

    C. 52 ft

    D. 66 ft

Exam Details

Exam Number and Name:	R56316 R56 Communication Site Installer
Cost:	$100
Availability:	http://www.eta-i.org/test_sites.html
Duration:	Exam Duration is 120 minutes
Number of Items:	Exam contains 112 items.
Item Types:	Multiple Choice, Multiple Response, True/False
Passing Scores:	75%
Available Languages:	English

Registration and Logistics

1. Decide which ETA certification(s) you would like to take and review the free objectives/competencies provided by ETA. Call to see if additional study materials are available.

2. Find an ETA certification administrator (CA) close to you to proctor the exam. You can search ETA's online database of test sites at www.eta-i.org/test_sites.html, or contact ETA at (765) 653-8262.

3. Decide whether to take the exam online with Trapeza or paper/pencil. Note: A certification administrator must be present regardless of which test format is chosen.

4. Arrange a time to take the exam with the chosen certification administrator.

5. Arrive early with the proper materials to take the exam. You may bring scratch paper and a non-programmable calculator to the exam. For the R56 exam, you will be given two hours if needed. Photo ID and #2 pencils required. No other electronic devices are permitted.

6. Once completed, the certification administrator will submit your exam and information along with payment. If you test online with ETA, you will be able to view your score(s) immediately.

7. Examinations are processed within 7-10 business days of arrival at ETA headquarters. However, scores may be requested online through the ETA website (www.eta-i.org/exam_results.html).

Frequently Asked Questions

How do I find out my score?

Pass/fail results from the exam will be available at: http://www.eta-i.org/results_reviews.html

If you take your exam online with Trapeza, your results will display immediately after completing the test. Do not click the NEXT button too quickly after your SUBMIT button. If you test either online or on paper ETA will process and mail your exam results and certification materials to you within 10-15 business days.

What if I have other relevant industry-recognized certifications or completed related training?

Motorola Solutions understands that some individuals may already be competent in the requirements for obtaining this certification. The Communication Site Installer (R56) requires that an individual complete and provide written evidence of having attended either the NST925 – Communication Site Installer or NST9255 – R56 Standards Update 2016 prior to attempting the exam.

How long will my R56 certification be valid?

Your ETA Communication Site Installer will remain valid for a 4 year term. Recertification is required as the R56 is not maintainable like other Motorola certifications: http://www.eta-i.org/motorola.html.

Are there training courses available in the field?

Training courses may be offered in the field under special circumstances. Contact your local Motorola Solutions Account Representative and/or Customer Support Manager or ETA.

What is I lose or need a copy of my certification or wallet card?

Replacement materials may be obtained from: http://www.eta-i.org/replacement_materials.html or by calling ETA at 1-800-228-3824.