

# GRAVITY

## Introduction to EGSA Apprentice Certification Program

# Who or What is the EGSA?

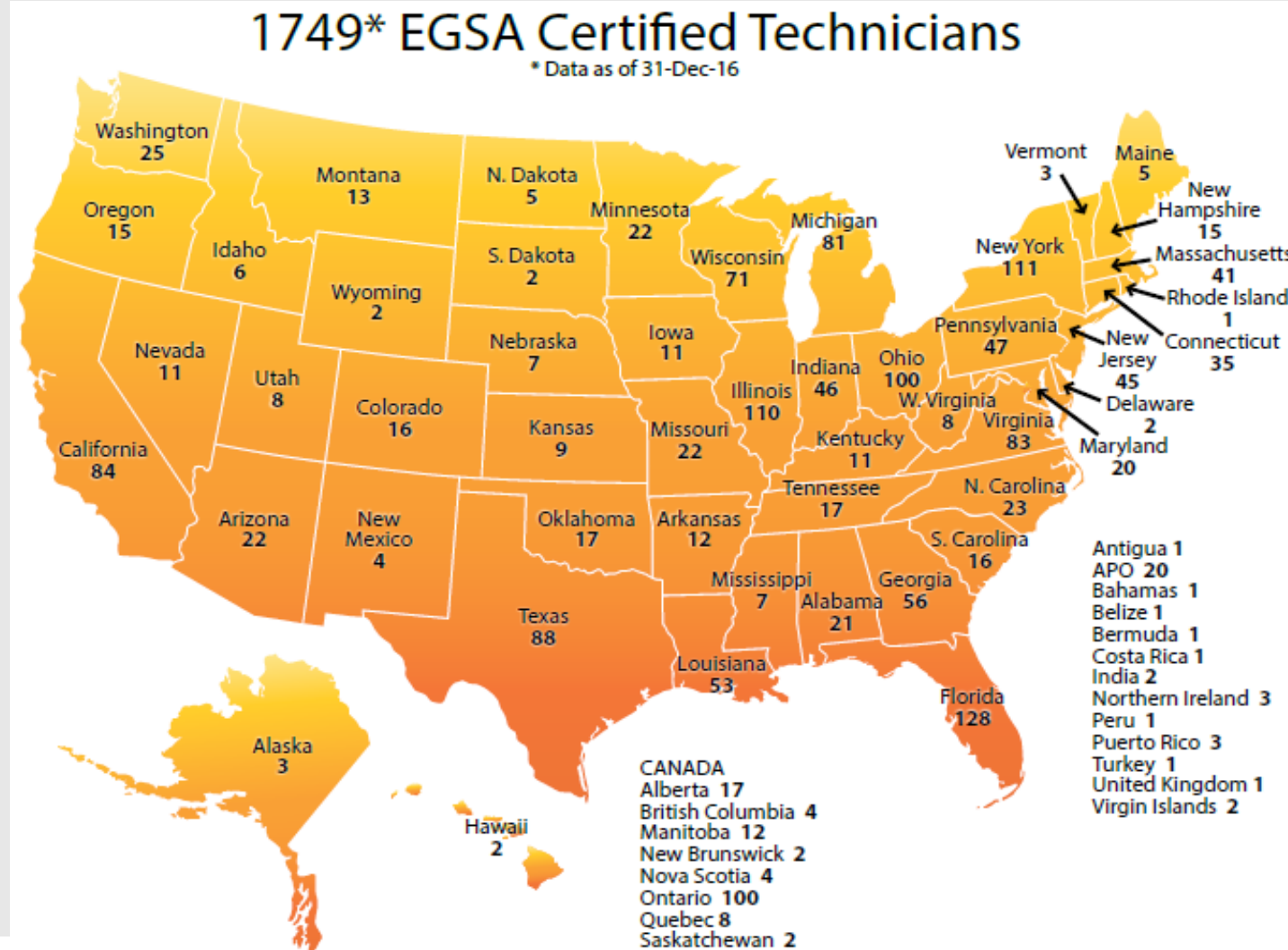
- The **Electrical Generating Systems Association (EGSA)** is the world's largest organization exclusively dedicated to On-Site Power Generation. The Association is comprised of over 750 companies—Manufacturers, Distributor/Dealers, Contractors/Integrators, Manufacturer's Representatives, Consulting & Specifying Engineers, Service firms, End-Users and others—throughout the U.S. and around the world that make, sell, distribute and use On-Site Power generation technology and equipment, including generators, engines, switchgear, controls, voltage regulators, governors and much more.

# (EGSA) Electrical Generating Systems Association Technician Certification

- The EGSA Technician Certification Program is nationally recognized and has become the hallmark of the Industry. Certification reflects a technicians' knowledge, capabilities, accomplishments, and professionalism. Gravity technicians have proven to be committed to the highest industry standards and are proud to collectively hold a total of 24 EGSA certifications. Technician skill deficiencies have a significantly negative impact on the financial and operational performance of any company. Think about the message that certification sends to those with whom Gravity does business with. Nobody wants a technician who is not certified performing critical maintenance or repair tasks on their equipment. Gravity currently holds 22 EGSA Apprentice Certifications and also 2 EGSA Journeyman Certification out of 1,749\* total in the world.

\*as of December 31, 2016

# (EGSA) Electrical Generating Systems Association Technician Certification



PROPRIETARY & CONFIDENTIAL



# Who may take the EGSA Certification Test?

- **Apprentice-Level Certification:**

Applicants for this level can satisfy any of the following areas:

1. A new Apprentice-level technician hired by a company (AKA Gravity) that performs service on EGSA-Type equipment.
2. An enrolled student of a 2 or 4 year Colleges that offers a course of study that use the EGSA Apprentice level exam and study guide as part of their curriculum to prove that they are offering the training needed to fulfill what EGSA Member companies require.
3. The Military can test their technicians to qualify them for jobs as they get out of the service and seek employment.

- **Journeyman-Level Certification**

1. Technicians applying for the Journeyman exam **MUST HAVE A MINIMUM OF 3 YEARS' EXPERIENCE AS AN ELECTRICAL POWER GENERATOR EQUIPMENT TECHNICIAN.** To be confident that they will pass the test, techs must have a comprehensive knowledge of basic electricity, the functions of a gen-set's mechanical and electrical components, the interactions and relationships among components and an understanding of various elements of the installation, service, maintenance, and repair of gen-sets and On-Site Power generation systems.

# EGSA Certification Exam Q&A

- **Q How many certifications does the EGSA offer?**
  - **A The EGSA offers two types of certification (Apprentice & Journeyman)**
- **Q Is this test an open book test?**
  - **A EGSA Certification exams are NOT “open book.” You will not be allowed to bring books or reference manuals of any kind into the test room.**
- **Q Can I use a calculator when taking my test?**
  - **A The use of a simple calculator IS allowed during the exam. Programmable calculators, however, are NOT allowed.**
- **Q How long is the test?**
  - **A You will be allowed a maximum of (2) hours to complete the Apprentice exam or four (4) hours to complete the Journeyman exam —an ample amount of time. If, however, you have not finished after the allotted time, the proctor will stop you when the time expires.**

# EGSA Certification Exam Q&A

- **Q What does the test cover?**
  - **A** Testing covers Basic Electricity, Prime Movers, Generators/Alternators, Engine Generator Instrumentation and Controls, Governors, Automatic Transfer Switches, Voltage Regulators, Multiple Generator Switchgear & Controls, Auxiliary Support Systems, Startup/Commissioning, and Troubleshooting System Problems.
- **Q Can I use my phone or laptop during the test?**
  - **A** To ensure a quiet testing environment and protect the security of its exam questions, EGSA does not allow personal electronic equipment—such as cell phones, laptop computers, PDAs, etc.—in the test room.
- **Q What happens if I don't pass the test??**
  - **A** In order to become certified you must achieve an overall passing score. If you fail to achieve an overall passing score, you must retake the entire test.
- **Q When will I receive my test results?**
  - **A** Test results will be mailed within 45 days of the examination date.

# EGSA Certification Exam Q&A

- **Q When do I take the Recertification Test?**
- **A** Certification credentials are valid for three years (Apprentice) or five years (Journeyman). This ensures that certified professionals are up-to-date in this rapidly changing industry. If the validation period has expired, it's time to register to take the Recertification Test
- **Q What do I receive to prove that I am EGSA Certified?**
- **A** When you pass the Certification test, you will receive a certificate noting your status as an EGSA Certified Electrical Generator Systems Technician. In addition, you will receive a wallet card and an insignia for your uniform sleeve or pocket. Additional patches can be ordered from Ferris State University.
- **Q Who made this test?**
- **A** Developed by Ferris State University in collaboration with EGSA and its technical experts, the certification program and test identify generator technicians who have sufficient knowledge and proficiency in the maintenance and repair of generator sets and On-Site Power generation systems. The EGSA Generator Systems Technician certification test is written to measure the professional's knowledge and the skills necessary for proficient job performance.



# When and where do I take the test and How do I register to take the test?

- The Gravity Technical Training Academy has been accepted by Ferris State University to proctor the EGSA exams.
- Testing will be conducted on the scheduled testing date without exceptions.
- Please notify [Maintenance.Department@gvty.com](mailto:Maintenance.Department@gvty.com) at least 30 days prior to the testing dates to register. The test will be supervised by a professional proctor for the duration of the test period.

# What is the passing score?

- To pass the Apprentice test, you will need to answer **100 questions** and achieve an overall score of at least **68% correct**.
- To pass the Journeyman test, you will need to answer **200 questions** and achieve an overall score of at least **80% correct**.
- If you achieve an acceptable overall passing score, you will have earned your EGSA Certification (Apprentice or Journeyman).

# Test Preparation

- Preparation will play a key role in how well you do on the test, so it's important to establish how much studying will be necessary to ready you for test day. With planning and dedication, your preparation efforts can go a long way towards greater ability and confidence when you need it most—when you walk into the test center.

# Is Technician Certification Exam Preparation/Study Guide Material Available?

- In accordance with the Ferris State University's **approved curriculum** the following preparation and study material is available.
- **EGSA's On-Site Power Generation: A Comprehensive Guide to On-Site Power** book will be issued to every Gravity Technical Training Academy attendee. This book is usually referred to as the reference book or the "bible" of the industry. Since the introduction of the first edition in 1990, people from every aspect of On-Site Power Generation have relied on this book to learn more about the theory and technologies of the components that comprise an on-site electrical generator system. This is the most comprehensive study guide you could employ in preparing for the test.
- **Apprentice or Journeyman Study Guide** - Study Guides for the Certification Test will be issued to every Gravity Technical Training Academy attendee . This comprehensive manual contains almost 200 sample questions (with correct answers) that mimic the test and formula pages. The Study Guide will be an extremely valuable aide in preparing to take and pass the test.

# So, you have now passed your EGSA certification test!



- CONGRATULATIONS! You will be an EGSA Certified Electrical Generator Systems Technician and you may proudly use that title and take pride in your accomplishments. The effective date of your Certification is the date that you took the exam.
- The Maintenance Department will mail you EGSA Uniform patches to demonstrate your achievement to others by wearing EGSA Certified Electrical Generator Systems Technician patches on your company uniforms.
- Additional patches, hats, decals, and certificates are also available only to those technicians who have passed the Certification test.



# Ordering EGSA items

## EGSA Electrical Generator Systems Apprentice Certification Program



*The EGSA Apprentice Certification was created as an entry level certification for candidates interested in employment in the power generation field. This certification will demonstrate their basic knowledge and commitment to perspective future employers. It is also intended to measure outcome assessment for students currently serving in the military or attending community colleges, universities, or technical schools with power generation curriculums. Certified technicians can proudly display their "EGSA Certified Electrical Generator Systems Apprentice Technician" certification.*



Item Number	Quantity	Item Description	Price	Item Total
FSU 199		EGSA Electrical Generator Systems Technician Apprentice Uniform Patch	<b>\$7.00</b>	
	FSU200	EGSA Electrical Generator Systems Technician Apprentice 4" X 6" Decal		<b>\$10.00</b>
FSU201		EGSA Electrical Generator Systems Technician Apprentice 8" X 10" Decal	<b>\$20.00</b>	
	FSU202	EGSA Electrical Generator Systems Technician Apprentice Baseball Cap		<b>\$21.95</b>
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# EGSA Certification Payrate Incentives

## EGSA Apprentice Level Certification

Hourly Associates who successfully pass the EGSA exam and obtain EGSA Apprentice Certification will receive an **additional \$1.00 per hour pay increase.**

## EGSA Journeyman Level Certification

Hourly Associates who successfully pass the EGSA exam and obtain EGSA Journeyman Certification will receive an **additional \$2.00 per hour pay increase.**

# Benefits of Certification for Technicians

**Certification grants you professional credentials that are portable.** Since it recognizes your individual accomplishments, EGSA's certification serves as an impartial, third-party endorsement of your knowledge and experience on a national level. Because EGSA is a national organization, your certification will follow you from employer to employer and from state to state. This includes our Apprentice and Journeyman levels of Certification.

**Certification reflects your knowledge, capabilities, accomplishments, and professionalism.** EGSA certification symbolizes a level of personal achievement that confers pride and professional confidence. EGSA certification is a reflection of personal accomplishment because you have demonstrated your commitment to doing things the right way by meeting standards and requirements established by the On-Site Power generation industry. Your EGSA certification will provide assurance that you have the knowledge and expertise to do the job properly.

**Certification demonstrates your commitment to your profession.** Obtaining EGSA certification shows your peers, supervisors and, in turn, the general public, that you are committed to your chosen career and have the ability to perform to set standards. Certification enhances the profession's image. EGSA's certification program seeks to grow, promote and develop certified professionals who can stand "out in front" as individuals who promote excellence and improved customer service and, in turn, build up the reputation of the profession and the industry.

**Certification can lead to better career opportunities, advancement and increased earnings potential.** EGSA certification may give you the "edge" over your non-certified peers when it comes time for promotion. Your EGSA certification will signify that you have demonstrated proficiency in specific technical areas based on accepted standards. Once certified, you may experience increased earnings as a direct result of your certification status—a tangible and objective statement of your capabilities and initiative.

**Certification may prepare you for greater on-the-job responsibilities.** EGSA certification is a clear indication of your willingness to invest in your own professional development. Certified professionals are more aware of their profession's constantly changing technology, and they have the desire to anticipate and respond to change.



# QUESTIONS ???

