



CERTIFIED AUTOMATED GATE SYSTEMS TECHNICIAN LEVEL 2

INSTITUTE OF DOOR DEALER
EDUCATION AND ACCREDITATION

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*For the highest level of
reliable Automated Gate
Systems expertise, use
certified technicians*

With today's technology, gate systems are becoming more and more complex. As gate operators and their associated accessories become more sophisticated and standards and regulations become more stringent, it is necessary to be knowledgeable and understand how to diagnose and repair a multitude of devices, from gate operators to cloud-based access control systems. In today's security-conscious society, consumers demand high quality products installed and maintained properly by professionals.

Automated gate systems provide a means of controlling vehicle access to residential properties, gated communities, and commercial/industrial sites with a wide range of access control requirements. When properly specified and installed, gate systems need to provide the access control level anticipated by the customer; but they must do so in a safe and reliable manner. Gate systems compose of many electro-mechanical devices and are subject to failure for various reasons over time.

The purpose of the second of three gate service technician programs is to help gate systems diagnose and repair gate systems by understanding licensing requirements, troubleshooting electrical circuits, system troubleshooting, along with vehicle detection systems. The gate systems technician's knowledge is an essential element of a safe and properly maintained automated gate system. The Institute of Door Dealers Education and Accreditation (IDEA) has worked with the Door & Access Systems Manufacturers Association (DASMA) and the International Door Association (IDA) to establish a program to validate the credentials of individuals who have the experience and skills in the servicing of automated gate systems.



Eligible gate system technicians are those who:

- Have completed a Self-Study Guide as written and endorsed by IDA and DASMA, and published by IDEA, intended to teach various aspects of automated gate systems technicians.
- Can successfully pass a written examination based upon the information contained within the Self-Study Guide. Applicants for the examination are advised that the Gate Systems Technician Level 2 Certification examination is based on a high degree of difficulty and is designed to validate one's fundamental knowledge.
- Has an Automated Gate Operator Installer Certification 1, as credentialed by IDEA.

Upon completing these three steps as described above, the applicant is awarded the designation of Certified Gate Systems Technician Level 2.

Maintaining Certification...

Gate Systems Technician Level 2 Certification applies for a three-year period beginning with the effective date assigned by IDEA after completing all of the program requirements. In order to maintain certification, each applicant will be required to submit a renewal form with a renewal fee. In addition, certified installers must earn 9 Continuing Education credits (1 hour of education equals 1 CE credit) during the three-year renewal cycle. IDEA will provide certified installers with additional information regarding the availability of eligible CE courses.

Preparing for Examination Through a Unique and Thorough Course of Study

It is the intent of IDEA to offer examination at the IDAExpo and other IDA events.

Introduction

- Why is all this worth your time and energy?
- Industry Organizations
- IDEA Programs and Services

UL 325

- Who is Underwriters Laboratories?
- Codes Referencing UL 325 and ASTM F2200
- Manufacturer Compliance with UL 325 Standards
- Adherence to UL 325
- Current General Entrapment Protection Provisions
- Entrapment Detection Devices
- UL 325 Standard after January 2016
- What Happens When an Entrapment Device is Activated?
- Installation of Warning Signs

Introduction to ASTM F2200 and M.U.T.C.D.

- ASTM F-2200 History
- Scope of ASTM F-2200
- Specific Applications of ASTM F-2200
- M.U.T.C.D. - Manual on Uniform Traffic Control Devices for Streets and Highways

Applications

- UL Classifications
- Basic Components
- Gate and Gate Operators
- Gate Access Control Systems
- Emergency Access
- How to Control Gate Access at a Gated Property
- Types of Properties

Accessories

- Solenoid Style Locks
- Magnetic Locks
- LED Lights
- Applications of LEDs
- Audible Devices

Emergency Override Equipment

- Power Fail Options
- AC Operator with Power Inverter
- Uninterruptible Power Supply
- DC Operator with Battery Back-Up System
- DC Operator with Battery Powered System
- Convenience Open Options
- Emergency Open Options

Integration of Systems

- Barrier Arm Gates
- Pedestrian Access Control
- Other Integrated Controls
- Sallyports

Radio Frequency Troubleshooting

- Radio Frequency (RF) Interference
- Alternate Frequency
- Spectrum Analyzer
- Gate Edge Transmitters

Access Control Systems

- Basic Controls
- Manufacturer Compliance with UL 294 Standards
- Installer Compliance with UL 294
- General Provisions in UL 294
- Secured Area Definitions
- Electrical Supervision
- Tamper Supervision
- Access Controlled Egress Doors
- Cards and Card Readers
- Automatic Vehicle Identification
- Anti-Passback
- Understanding Serial Communication Protocols
- Understanding Wiegand
- Serial to Ethernet Converters
- Types of Broadband (Internet) Connections
- Communication Types
- VoIP Internet Phone Service
- Cellular Service – Wireless
- Elevator Control

Vehicle Detection Systems

- Exclusion of Vehicle Detection Systems in UL 325
- Sensor Technology Characteristics
- Vehicle Detection Functions
- Troubleshooting Vehicle Detection Systems
- Loop & Detector Troubleshooting
- Detector Installation/Setup Checklists

How the Program Works:

Certification is earned by completing all of the steps and meeting the eligibility criteria established by the IDEA Board of Directors.

- ◆ The first step is to complete an application for Gate Systems Technician Level 2 Certification and return it to IDEA. There will be a fee for the Self-Study Guide, which also includes the costs for the testing. A completed application is required for each individual seeking certification.
- ◆ Upon receiving the application, IDEA will provide the Self-Study Guide to the applicant. The applicant may take as much time as necessary to learn all of the information contained within the Self-Study Guide before taking the examination. Although other employees within a company are also encouraged to study the manual, the testing and certification is limited to the applicant.

The Self-Study Guide

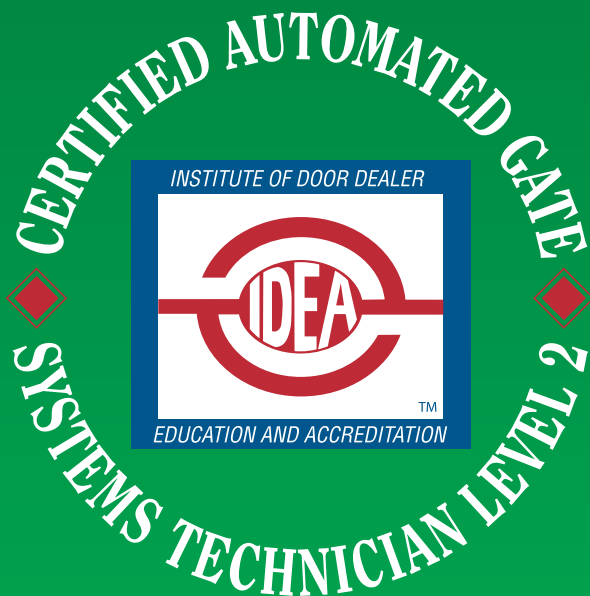
The next step in the certification process is to successfully complete a comprehensive written examination based on the Self-Study Guide. The study guide covers a full range of applications, accessories, emergency override equipment, integration of systems, radio frequency troubleshooting, access control systems, and vehicle detection systems.

The examinations are proctored and can be scheduled in a variety of locations throughout North America, as well as by appointment. Examinations are graded on a Pass-Fail basis with a minimum passing score of 80%. It is the intent of the IDEA to offer the examination at the IDAExpo and other IDA events.. The written tests are multiple choice and True-False, and are based solely on the Self-Study Guide materials.

Upon successful completion of the written examination the applicant will receive a certificate suitable for framing, shirt patches, and an identification card.

Benefits

The program has a number of benefits affecting the technical, marketing, liability and legislative aspects of automated gate systems. Today's consumers are demanding professional qualifications for services effecting the security and value of their property. The public perception of the gate operator industry will advance knowing this training and certification is available.





The Institute of Door Education and Accreditation (IDEA) is an independent, non-profit, tax-exempt 501(c)(3) educational foundation, dedicated to serving the public interest by enhancing professionalism and safety within the door systems industry. IDEA is supported and partially funded by the International Door Association and the Door and Access Systems Manufacturers Association.



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