

# SAFETECH

## Class Descriptions



Monday, April 7	Tuesday, April 8	Wednesday, April 9	Thursday, April 10	Friday, April 11	Saturday, April 12
<b>Registration:</b> 7:00 a.m. – 5:00 p.m. <b>Classes:</b> 8:00 a.m. – 5:00 p.m.	<b>Registration:</b> 7:30 a.m. – 5:00 p.m. <b>Classes:</b> 8:00 a.m. – 5:00 p.m.	<b>Registration:</b> 7:30 a.m. – 5:00 p.m. <b>Classes:</b> 8:00 a.m. – 5:00 p.m.	<b>Registration:</b> 7:30 a.m. – 5:00 p.m. <b>Classes:</b> 8:00 a.m. – 5:00 p.m.	<b>Registration:</b> 7:30 a.m. – 5:00 p.m. <b>Classes:</b> 8:00 a.m. – 5:00 p.m.	<b>Registration:</b> 7:30 a.m. – 5:00 p.m.
101 Mechanical Combination Lock 101	201 Mechanical Combination Lock Diagnostics	301A Common Lockout Issues With Time Locks	401 Time Lock Service and Repair (Day 1 of 2)	501 Time Lock Service and Repair (Day 2 of 2)	<b>CMST Breakfast</b> (By Invitation Only): 7:30 a.m.
	202 Basic Lever Lock Picking	302 Digital Mechanical Lock Manipulation	402 Common Key Locks	502 Safe and Safe Lock Servicing for Beginners	<b>Membership Meeting:</b> 8:30 a.m.
		303 Safe Moving and Rigging	403 Vertical Milling Machine		<b>Trade Show:</b> 10:00 a.m. – 4:00 p.m.
104 Electronic Safe Lock Servicing and Opening	204 Mechanical Safe Lock Servicing and Opening	304 Building and Managing a Successful Retail Locksmith Business			<b>Harry C. Miller Manipulation Contest:</b> 11:00 a.m. – 3:00 p.m.
	205 Dialing for Dollars With Diagnostics	305 Forensics for the Safe Tech (Day 1 of 2)	405 Forensics for the Safe Tech (Day 2 of 2)		
106 Spiking Electronic Locks	206 Spiking Electronic Locks		406 Bank Vault Electronic Conversion	507A Scooping the Change Key Hole (HALF-DAY 8 a.m. – 12 p.m.)	
107 Basic Group 2 Safe Lock Manipulation (Day 1 of 2)	207 Basic Group 2 Safe Combo Lock Manipulation (Day 2 of 2)	307 Advanced Combination Lock Manipulation (Day 1 of 2)	407 Advanced Combination Lock Manipulation (Day 2 of 2)	507P Scooping the Change Key Hole (HALF-DAY 1 p.m. – 5 p.m.)	
108 Simplex Lock Manipulation	208 Principles of Safe Manipulation	308 Safe Tech Prep Course- CPS Test included (Day 1 of 2)	408 Safe Tech Prep Course- CPS Test included (Day 2 of 2)		
109 Comprehensive Overview Class	209 Basic-Level Programming	309 Mid-Level Programming 1	409 Mid-Level Programming 2	509 High-Level Programming	
110 Basic Safe Opening	210 Advanced Safe Opening (Day 1 of 2)	310 Advanced Safe Opening (Day 2 of 2)	410 GSA Drilling and Repair Fed Standard 809 (Day 1 of 2)	510 GSA Drilling and Repair Fed Standard 809 (Day 2 of 2)	
	<b>EVENING SEMINARS:</b> Government Security Update 6 p.m. Ask the Experts 8 p.m. (Sponsored by TMI Corp.)	<b>ST/PRP Testing:</b> 6 p.m. – 10 p.m. <b>Swap Meet:</b> 6 p.m. – 10 p.m. (Sponsored by MBA USA)	<b>Sargent &amp; Greenleaf 50th Anniversary Event (OFF-SITE):</b> 6 p.m. – 8 p.m.	<b>Kick-Off Party and Live Auction (OFF-SITE AT LOCKMASTERS, INC.)</b> 7 p.m. – 10 p.m.	

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## Monday, April 7, 2025

### 101: Mechanical Combination Lock Fundamentals

**Instructor:** Mike Potter, CPS, CAI

**Track:** Safe and Vault

**Level:** Beginner

**Content:** 20% Lecture/80% Hands-On

**Limit:** 12

**Description:** Getting into the world of safe and vault servicing? Establish the proper foundation by learning the basics including proper combination, servicing, troubleshooting common issues as well as some basic non drilling entry techniques. The class is one day and is strictly Limited to 12 students.

### 104: Electronic Safe Lock Opening and Servicing

**Instructor:** Gregory L. Perry, CML, CPS, CMEL, AMKS, CAI

**Track:** ELock

**Level:** Beginner

**Content:** 50% Lecture/50% Hands-On

**Limit:** 25

**Description:** Electronic safe locks are on all types of safes and vaults. Many customers are afraid to change the combination, knowing how to identify them and how to change them is a money-making skill. This class will take the students through over 20 different elocks including GSA Locks, common Elocks from S&G, Securam, and LaGard and less common locks including several different open solenoid locks. Students will leave the class with a great understanding of how these locks operate and an electronic manual of installation and programming instructions for most elocks seen in the field today. This class not only focuses on installing and servicing elocks but will also discuss various opening techniques. The class is divided between a morning lecture and the afternoon spent programming and looking at how to open the different locks. This class is designed for beginning technicians as well as those that have some safe servicing experience but desire more knowledge.

**LAB FEE:**

**104R LAB FEE REQUIRED \$30 for drill bits.**

### 106: Spiking Electronic Locks

**Instructor:** Lance Mayhew

**Track:** ELock

**Level:** Beginner

**Content:** 50% Lecture/50% Hands-On

**Limit:** 20

**Description:** This class covers how to electronic safe lock spiking, which can be used to 'hot-wire' many locks and open them through the spindle hole. The class

is a mixture of hands-on training and conventional classroom instruction. Students will start by building their own probes using the provided tools and materials. Then, during the lecture portion, they will use their new probes as they learn how to spike sample locks in several different ways. We will cover different aspects of electronic locks, including circuit board construction, component identification, spike targets, and the different types of spike circuits and how to use them. LA GARD and Securam swing bolts are used to teach the main principles. Other locks will be available for students to practice with if time permits.

**Lab fees—this class requires each student to have their own textbook and Valkyrie in hand on class day. The full lab fee applies to students who do not have a textbook and/or Valkyrie, in which case they will be provided, and (along with the probes made in class) are theirs to keep. Students who bring their own textbook and/or Valkyrie will have their lab fees lowered accordingly.**

**LAB FEE(S):**

**106R1 LAB FEE – REQUIRED \$295 for the Valkyrie Book (If you do not already own it and bring it to class).**

**106R2 LAB FEE – REQUIRED \$215 for Valkyrie (If you do not already own it and bring it to class).**

**106R3 LAB FEE – REQUIRED \$30 for Probes.**

### 107/207: Basic Group 2 Safe Lock Manipulation (Day 1 of 2)

**Instructor:** Elaad Israeli, CRL, CFL, CPS, CAI, CFFDI, LSFDI

**Track:** Safe Manipulation

**Level:** Beginner

**Content:** 40% Lecture 60% Hands-On

**Limit:** 20

**Prerequisite:** Yes, *Basic Safe Lock Servicing class OR experience servicing and installing mechanical safe locks.*

**Description:** Do not let the title deceive the reader — there is nothing “basic” about combination lock manipulation! As a Prerequisite, attendees should have already received training on combination locks and servicing. Students of this class will receive the necessary instruction to accomplish the task. From nomenclature to design and from tolerances to techniques, students will leave having opened a Group 2 combination lock via manipulation. The focus will be on the S&G 6730, and students will have the option of retaining their mounted cutaway for practice (the optional **LAB FEE** applies to the purchase of the lock).

**LAB FEE:**

**107O LAB FEE – OPTIONAL \$280 for optional lock.**

### 108: Simplex Manipulation

**Instructor:** Harry Sher, CML, CPS

**Track:** Safe and Vault

**Level:** Beginner

**Content:** 20% Lecture 80% Hands-On

**Limit:** 25

**Description:** At the conclusion of this one-day training program, the student will be familiar with the Simplex ® and Unican ® combination Chamber, be able to change combinations and decode unknown combination on the Simplex ® or Unican ® Series of pushbutton locks, understand and demonstrate two methods of manipulation, determine combination sequence and understand the theory of half numbers. Material covered in this class is valuable in preparing for certification programs offered by ALOA.

**LAB FEE:**

**108O LAB FEE – OPTIONAL \$180 DAME Defense Against Methods of Egress CD by Harry Sher.**

### 109: Comprehensive Overview Class

**Instructor:** Phil Sutherland

**Track:** ELock

**Level:** Beginner

**Content:** 60% Lecture/40% Hands-On

**Limit:** 20

**Description:** Comprehensive Overview: Hardware, Language, Programming, Service & Defeat

**Class Goals:** By the end of this class, you will better

- Understand Hardware options – Proper Selection for Application
- Understand Lock Language – Key to successful Servicing
- Understand Programmable Features – They Differentiate Models
- Servicing, Top 10 Troubleshooting Tips, & Defeat Techniques
- Hands-On Lock Models: (60% Lecture, 40% Hands-on)
- LaGard: 700Basic
- S&G: Titan
- Securam: SafeLogic Basic, ProLogic L02
- Tecnosicurezza: Pulse, PulsePro
- Defeat Methods reviewed
- By-Pass: Little Black Box
- Spiking: Lance Mayhew
- Drilling: Drill Points

### 110: Basic Safe Opening

**Instructor:** Joseph Reustle, CPS, GSAT, CAI

**Track:** Safe and Vault

**Level:** Beginner

**Content:** 60% Lecture/40% Hands-On

**Limit:** 24

**Prerequisite:** Students should be proficient in understanding how a combination lock functions and proper names of its parts. Students should also be able to use basic tools and read a tape measure.

**Description:** Students will be taught about the basic tools and how to use them. We will cover drilling of mechanical safe locks as well as some ways to overcome some malfunctions without drilling.

**LAB FEE:**

**110R LAB FEE – REQUIRED \$114**

## Tuesday, April 8, 2025

### 201: Mechanical Lock Diagnostics

**Instructor:** Ed J. March IV, RL

**Track:** Safe and Vault

**Level:** Beginner

**Content:** 25% Lecture 75% Hands-On

**Limit:** 24

**Prerequisite:** Yes, should have taken the basic mechanical lock course.

**Description:** Mechanical lock diagnostic procedures will be covered with this class. Counting wheels and determining contact points are the starting point of diagnostics. Students will learn techniques to determine the cause of the lock out and get the lock open. This will cover issues that can range from internal failures to problems when the lock was installed initially.

### 202: Basic Lever Lock Picking

**Instructor:** Russell Davies, CPS

**Track:** Safe and Vault

**Level:** Beginner

**Content:** 20% Lecture 80% Hands-On

**Limit:** 15

**Description:** Join us for a workshop where you will explore the fundamentals of lever locks, including their mechanics and why they can be challenging to bypass. You will have the opportunity to create your own basic lever lock picks and apply them to contemporary locking systems, such as those found on gun safes and other security equipment. This hands-on experience will enhance your

understanding of lever locks and provide practical skills in lock picking. Whether you are a beginner or looking to refine your skills, this workshop is perfect for anyone interested in the art of locksmithing.

**LAB FEE:**

**202R: LAB FEE – REQUIRED \$30 for packing materials.**

### 204: Mechanical Safe Lock Servicing and Opening

**Instructor:** Greg Perry, CML, CPS, CMEL, AMKS, CAI

**Track:** Safe and Vault

**Level:** Beginner

**Content:** 50% Lecture/50% Hands-On

**Limit:** 25

**Description:** Combination locks have been a part of the safe industry since the mid 1850's. Knowing how they are assembled and serviced should be the first step for any technician wanting to work on safes. This class will take the students through a complete disassembly of a couple different combination safe locks. We will change combinations and learn how to decode unknown combinations when you have access to the inside or the safe by looking through the change keyhole. We will open a couple of safes as class projects. This class is designed for beginners and the technicians that desire more knowledge. This class will assist with passing the L-24 PRP category.

**LAB FEE:**

**204R LAB FEE – REQUIRED \$30 for drill bits used in class.**

### 205: Dialing for Dollars with Diagnostics

**Instructor:** James Ashley, CPL, CMST, CMEL, CFL, CFMST, CAI

**Track:** Safe and Vault

**Level:** Beginner

**Content:** 60% Lecture/40% Hands-On

**Limit:** 12

**Prerequisite:** Yes, students must have experience in Safe lock or have taken an Intro to Mechanical Safe Lock Class.

**Description:** When you get called to open a safe with a mechanical lock, take some time to diagnose the problem — and this class will show you how! Experience real-world safe problems and be taught how to overcome them. Topics covered include loose dial rings, spine keys, fired relockers, problems experienced with combination changing, proper cleaning and lubrication, preventative maintenance and ultimately knowing when to break out a drill based on your diagnostics.

### 206: Spiking Electronic Locks

**Instructor:** Lance Mayhew

**Track:** ELock

**Level:** Beginner

**Content:** 50% Lecture/50% Hands-On

**Limit:** 20

**Description:** This class covers how to electronic safe lock spiking, which can be used to 'hot-wire' many locks and open them through the spindle hole. The class is a mixture of hands-on training and conventional classroom instruction.

Students will start by building their own probes using the provided tools and materials. Then, during the lecture portion, they will use their new probes as they learn how to spike sample locks in several different ways. We will cover different aspects of electronic locks, including circuit board construction, component identification, spike targets, and the different types of spike circuits and how to use them. LA GARD and Securam swing bolts are used to teach the main principles. Other locks will be available for students to practice with if time permits. *The full lab fees—this class requires each student to have their own textbook and Valkyrie in hand on class day. The full lab fee applies to students who do not have a textbook and/or Valkyrie, in which case they will be provided, and (along with the probes made in class) are theirs to keep. Students who bring their own textbook and/or Valkyrie will have their The full lab fees lowered accordingly.*

**LAB FEE(S):**

**206R1 LAB FEE – REQUIRED \$295 for the Valkyrie Book (If you do not already own it and bring it to class).**

**206R2 LAB FEE – REQUIRED \$215 for Valkyrie (If you do not already own it and bring it to class).**

**206R3 LAB FEE – REQUIRED \$30 for Probes.**

### 207: Basic Group 2 Safe Lock Manipulation (Day 2 of 2)

See 107

### 208: Principles of Safe Manipulation

**Instructor:** Harry Sher, CML, CPS

**Track:** Safe and Vault

**Level:** Beginner

**Content:** 20% Lecture/80% Hands-On

**Limit:** 25

**Description:** MANIPULATION is the art of opening combination locks, without prior knowledge or information as to the present combination, does not require the use of force or tools, does not cause damage to any part or component, and leaves no evidence of entry. Each student will learn when to manipulate and will understand how picking, reading, and impressioning are related to safe manipulation. The class will cover proper combination lock terminology. The student will become competent in dialing diagnostics and visualization of the internal workings of a combination lock. Students will understand the principles of manipulation, become familiar with manipulation aids and gain confidence in manipulation.

**LAB FEE:**

**208O LAB FEE – OPTIONAL \$180 DAME Defense Against Methods of Egress CD by Harry Sher.**

### 209: Basic Level Programming

**Instructor:** Phil Sutherland

**Track:** ELock

**Level:** Beginner/Intermediate

**Content:** 20% Lecture/80% Hands-On

**Limit:** 20

**Description:** Basic-Level Programming: Hardware, Language, Programming, & Service

**Class Goals:** By the end of this class, you will better

- Understand Hardware options – Proper Selection for Application
- Understand Lock Language – Key to successful Servicing
- Understand Programmable Features – They Differentiate Models
- Servicing & Top 10 Troubleshooting Tips
- Hands-On Lock Brands & Models: (20% Lecture, 80% Hands-on)
- Securam: SafeLogic
- LaGard: 700Basic
- S&G: Atlas, Spartan
- Tecnosicurezza: Pulse 2 Code
- NL: Universal, Basic

### 210/310: Advanced Safe Opening (Day 1 of 2)

**Instructor:** Joseph R. Reustle, CPS, GSAT, CAI

**Track:** Safe Opening

**Level:** Intermediate

**Content:** 40% Lecture/60% Hands-On

**Limit:** 20

**Prerequisite:** Yes, Class Requirement: Basic Safe Opening Class. Students should also be able to use basic tools and read a tape measure.

**Description:** Students will learn about safe construction, hardplates and relockers. We will cover drilling of mechanical safe locks, electronic locks and relockers.

**LAB FEE:**

**210R LAB FEE – REQUIRED \$155**

## Wednesday, April 9, 2025

### 301: Common Lockout Issues with Timelocks

**Instructor:** Edgar J. March IV, RL

**Track:** Safe and Vault

**Level:** Beginner

**Content:** 25% Lecture/75% Hands-On

**Limit:** 12

**Description:** The most common lockouts caused by a timelock will be covered. Along with the presentation there will be some hands-on that will allow the students to recognize the cause of these failures and how to correct them. Most failures of the timelock have nothing to do with the timelock themselves, they involved a bad assembly or customer interference.

### 302: Digital Mechanical Lock Manipulation

**Instructor:** Russell Davies, CPS

**Track:** Safe and Vault

**Level:** Intermediate

**Content:** 20% Lecture/80% Hands-On

**Limit:** 10

**Prerequisite:** Yes, basic manipulation knowledge required.

**Description:** Manipulation of mechanical combination lock using a digital ID. Consistently, accurately read the KCL (keyless combination locks).

### 303: Safe Moving and Rigging

**Instructor:** Gene Gyure, CRL, CAI, GSA-T and Asst. Amanda

Koestner, CRL

**Track:** Safe and Vault

**Level:** Intermediate

**Content:** 25% Lecture/75% Hands-On

**Limit:** 24

**Prerequisite:** No, Skills taught in this class will be good for any Level of safe tech.

**Description:** Are you a safe mover? Or do you want to learn safe moving techniques? This class will demonstrate safe moving and rigging techniques for moving safes ranging in size from small to large. The use of various equipment and materials will be discussed and demonstrated (with hands-on use), including but not limited to the Ultra-Lift stair climber and Roll-A-Lift dollies, plus pallet jacks, pry and lift bars, rollers, and more. At least a quarter of the day will be dedicated to explaining, demonstrating, and hands-on use of cribbing—up, down, bridging, and more. Students will also be made aware of safety concerns and issues surrounding safe moving and rigging. Beginners and Intermediate students should enjoy this class.

**LAB FEE:**

**303R LAB FEE – REQUIRED \$15 for materials Safe Moving & Rigging.**

### 304: Building and Managing a Successful Retail Locksmith Business

**Instructor:** Loni Portie, CLL, CRL, CAI

**Track:** Business

**Level:** Beginner

**Content:** 100% Lecture/0% Hands-On

**Limit:** 25

**Description:** This course will provide students with essential skills to open and manage a retail locksmith office. The first area that will be covered is the basics of a business, including advertising, recordkeeping, and basic business setup. The second part of the class will dive deep into management. The management section of this class will cover areas associated with employees, customers, and the retail portion of the store. After completion of this course, you will have the skills and confidence to go out and effectively manage a locksmith retail store. This course will provide students with essential skills to open and manage a retail locksmith office.

### 305/405: Forensics for the Safe Technician (Day 1 of 2)

**Instructor:** James Ashley, CPL, CMST, CMEL, CFL, CFMST, CAI

**Level:** Intermediate

**Content:** 60% Lecture/40% Hands-On

**Limit:** 12

**Description:** This is an introductory class on forensics for safe techs. Each student will be taught basic forensic study of locks, nomenclature and terminology relating to how to examine for bypass marks. We will review actual field cases relating to safes that were opened in several ways. You will see the tools used in the study of forensics examination. This class is one of the required classes to take your certified forensic locksmith CFL S&V Certified Forensic Locksmith Safe & Vault exam.

**LAB FEE:**

**305R LAB FEE – REQUIRED: \$72**

### 307/407: Advanced Combination Lock Manipulation (Day 1 of 2)

**Instructor:** Elaad Israeli, CRL, CFL, CPS, CAI, CFFDI, LSFDI

**Track:** Manipulation

**Level:** Advanced

**Content:** 40% Lecture/60% Hands-On

**Limit:** 20

**Prerequisite:** Yes, Completion of Basic Group 2 Safe Lock Manipulation and field successes OR competency in manipulation. Must bring an AMP to class. Optional lab fee is to purchase an AMP.

**Description:** This advanced class is not for novice manipulators. You must bring or buy an amp. It is designed to make good manipulators become more successful and more profitable. As a Prerequisite, attendees should have already received formal training on the subject (i.e., have completed the Basic Manipulation course) and should have had successful field experience. The

Content of the class will include diagnostics and identification, time reduction, tricks and tips, tools and aids and advanced defeat methods for combination locks. The primary focus will be the LA GARD 3330. However, other locks that cause the manipulator difficulty will be covered, as will a collection of common antiques and notables.

**LAB FEE:**

**3070 LAB FEE – OPTIONAL:** to purchase an AMP. You are required to bring one to class. **if you would like to purchase, it will cost \$280.00. Some tips and explanations will be provided regarding the usage of the AMP.**

### 308/408: CPS Certified Professional SafeTech Review Course and Exam (Day 1 of 2)

**Instructor:** Harry L. Sher, CML, CPS, CAI

**Track:** Certification

**Level:** Beginner

**Content:** 80% Lecture/20% Hands-On

**Limit:** 25

**Description:** This two-day class is designed as a review to prepare participants for the STPRP certification exam; it is an excellent overview of the wide range of topics related to safes and safe locks. Students will participate in 2 days of fast paced instruction and hands-on training, covering basic and advanced, theory and operation of safes and safe locks. Safe and safe lock construction, ratings, container classifications, servicing and defeat methods are just some of the subjects covered in class. Students will also be taught the proper way to scope a change keyhole, lock defeat methods, drill point options, how to pull various dials, lock handing, safe door handing, lock-out diagnostics, the correct way to drill and transfer and much more. An in-class ST/PRP CPS Certified Professional Safe Technician Exam will be given the second half of day two.

**LAB FEE(S):**

**3080B LAB FEE – OPTIONAL/REQUIRED \$180 Safe Tech Reference Book by Jeff Ohlert this reference book is REQUIRED to bring to class and OPTIONAL to purchase. Pay the LAB FEE if you do not already own the book and receive it on the first day of class. If you would like to buy it in advance and have it shipped directly to you, use this link (<https://www.aloamembers.org/item.php?id=STRM>) to place your order. Please order before March 17, 2025 to receive it before the show.**  
**3080C LAB FEE – OPTIONAL: \$180 DAME Defense Against Methods of Egress CD by Harry Sher.**

### 309: Mid-Level Programming 1

**Instructor:** Phil Sutherland

**Track:** ELock

**Level:** Beginner/Intermediate

**Content:** 20% Lecture/80% Hands-On

**Limit:** 20

**Description:** Mid-Level Programming: Hardware, Language, Programming, & Service

**Class Goals:** By the end of this class, you will better

- Understand Hardware options – Proper Selection for Application
- Understand Lock Language – Key to successful Servicing
- Understand Programmable Features – They Differentiate Models
- Servicing & Top 10 Troubleshooting Tips
- Hands-On Lock Brands & Models: (20% Lecture, 80% Hands-on)
- Securam: SafeLogic C10, L02
- S&G: 6120, Titan, Audit 2.0

### 310: Advanced Safe Opening (Day 2 of 2)

See 210

## Thursday, April 10, 2025

### 401/501: Time Lock Service & Repair (Day 1 of 2)

**Instructor:** Ed J. March IV, RL

**Track:** Safe and Vault

**Content:** 25% Lecture/75% Hands-On

**Limit:** 12

**Description:** Timelock service and repair are covered in this hands-on class. The TMI and S&G timelock assemblies will be used since they are the most common in the industry. With the TMI and S&G assemblies we will be going through the most common adjustments and repairs as well as the proper cleaning procedure. Along with the adjustments the students will be taught the proper testing techniques to verify proper operation until the next inspection. The lab fee will include the TMI journeyman kit the student will receive.

**LAB FEE:**

**401R LAB FEE – REQUIRED: \$438 for journeyman tool kit and consumables.**

### 402: Common Key Lock

**Instructor:** Joseph R. Reustle, CPS, GSAT, CAI

**Track:** Safe and Vault

**Level:** Beginner

**Content:** 60% Lecture/40% Hands-On

**Limit:** 12

**Description:** Students will be taught about the FAS Key Lock, S&G 6804 Lock and LA GARD 2200 Key Lock. We will take apart locks and learn to reset them as if the safe is open and the key was lost. We will discuss opening of locks. There will be no drilling or defeat of locks in this class.

**LAB FEE:**

**402R LAB FEE – REQUIRED \$60**

### 403: Vertical Mill Machine

**Instructor:** Dan Billheimer, CPL, CPS, CAI with Asst. Jim A. Davis, RL

**Track:** Safe and Vault

**Level:** Beginner

**Content:** 10% Lecture/90% Hands-On

**Limit:** 12

**Description:** This class is to cover basic vertical mill operation. How to indicate a hole, locate an edge and screw the head in? We cover conventional and climb, milling, speeds and feeds. This will be for the student that wants to expand his Shop skills to include milling machine. To make simple parts we need for the trade. Making a cutaway lock to one of the projects will also be included.

### 405: Forensics for the Safe Technician (Day 2 of 2)

See 305

### 406: Bank Vault Electronic Conversion

**Instructor:** Adam Lewis

**Track:** Safe and Vault

**Level:** Beginner

**Content:** 60% Lecture/40% Hands-On

**Limit:** 16

**Prerequisite:** Yes, experience in bank vault service, electronic lock installation and basic fabrication.

**Description:** As banking evolves in an electronic world, its security needs must also evolve. Mechanical locks have been an essential element of security for hundreds of years, and still perform well in most cases. With the rise in popularity and reliability of electronic locks, it is time to consider adapting them into the most iconic element of bank security: the vault. Adapting electronic locks into vaults presents numerous engineering challenges. This class will identify these challenges and outline several different solutions, and the pros and cons of each.

### 407: Advanced Combination Lock Manipulation (Day 2 of 2)

See 307

### 408: CPS SafeTech Review Course and Exam (Day 2 of 2)

See 308

### 409: Mid-Level Programming 2

**Instructor:** Phil Sutherland

**Track:** ELock

**Level:** Beginner/Intermediate

**Content:** 20% Lecture/80% Hands-On

**Limit:** 20

**Description:** Mid-Level Programming: Hardware, Language, Programming, & Service

**Class Goals:** By the end of this class, you will better

- Understand Hardware options – Proper Selection for Application
- Understand Lock Language – Key to successful Servicing
- Understand Programmable Features – They Differentiate Models
- Servicing & Top 10 Troubleshooting Tips
- Hands-On Lock Brands & Models: (20% Lecture, 80% Hands-on)

- LaGard: 39E, 702D
- Tecnosicurezza: Pulse 10 Code, PulsePro
- NL: DIA

### 410/510: GSA Drilling and Repair with full instructions of Federal Standard 809 (Day 1 of 2)

**Instructor:** Joe Cortie, CML, CPS, CAI, GSAI/T with Assts. Gene Gyure, CRL, CAI and Amanda Koestner, CRL

**Track:** Safe and Vault

**Level:** Beginner, Intermediate and Advanced

**Content:** 30% Lecture/70% Hands-On

**Limit:** 25

**Description:** This class will thoroughly cover sections of Federal Standard 809 on drilling and repairing GSA containers/vaults. You will learn about and have the latest copy of Federal Standard 809 which is the "Bible" for Government requirements. You will learn to identify which GSA containers/vaults may not be repaired and which ones may be repaired and put back into use. You will learn the significance of label colors and their purpose. You will drill and properly repair a GSA container. After completing this course, you will be authorized to drill and repair GSA containers/vaults according to Government standards. Excerpt from Federal Standard 809: "To meet the goal of this standard, only properly trained and equipped personnel are authorized to perform inspections, maintenance procedures or to perform the opening and repair methods described in this standard (see para 6.3.2)".

**LAB FEE:**

**4100 LAB FEE – OPTIONAL \$75 for Ins and Outs of GSA Containers and Vaults By: Joe Cortie if you would like to buy it in advance and have it shipped directly to you. use this link (<https://www.aloamembers.org/item.php?id=IOGSAC>) to place your order. Please order before March 17, 2025 to receive it before the show.**

## Friday, April 11, 2025

### 501: Time Lock Service & Repair (Day 2 of 2)

See 401

### 502: Safe and Safe Lock Servicing for Beginners

**Instructor:** Mike McElheney, CML, CMST

**Level:** Beginner

**Content:** 50% Lecture/50% Hands-On

**Limit:** 20

**Description:** Intro to safe and safe lock servicing. Class will cover mechanical locks and service (S&G 6700 based) types of relocks, safe ratings and construction, bolt work types (single and 2-stage), basic ELock overview, and tools & equipment required.

**LAB FEE:**

**502R LAB FEE – REQUIRED \$60 for safe lock service tray & safe lock stand. less lock.**

### 507A: Scoping the Change Keyhole (AM – Same as PM)

**Instructor:** Dan Billheimer, CPL, CPS, CAI

**Track:** Safe and Vault

**Level:** Beginner

**Content:** 10% Lecture/90% Hands-On

**Limit:** 20

**Description:** Scoping the change keyhole is a great way to open the lock with little or no damage! This class will tune up that skill. It is also a start on being taught to park and move lock wheels.

### 507P: Scoping the Change Keyhole (PM – Same as AM)

**Instructor:** Dan Billheimer, CPL, CPS, CAI

**Track:** Safe and Vault

**Level:** Beginner

**Content:** 10% Lecture/90% Hands-On

**Limit:** 20

**Description:** Scoping the change keyhole is a great way to open the lock with little or no damage! This class will tune up that skill. It is also a start on being taught to park and move lock wheels.

### 509: High-Level Programming

**Instructor:** Phil Sutherland

**Track:** ELock

**Level:** Beginner/Intermediate

**Content:** 90% Lecture/10% Hands-On

**Limit:** 20

**Description:** High-Level Programming: Controlled Access: OTC (One-Time-Code), IP Network, Cloud – App Operated Locks

**Class Goals:**

- Comprehensive Overview of:
- Dynamic Code Safe Locks
- Network Safe Locks
- Cloud Based - App Operated Locks
- Understand Operational process of each lock model type
- Hands-On Lock Brands & Models:
- Dynamic Code Locks (1/2 Day)
- LaGard: CenconX
- S&G: A-Series
- Tecnosicurezza: Dyama – MiniTech, TechMaster
- Securam: R22, ProLogicOTC
- Network Locks (1/2 Day)
- DormaKaba: Apexx
- S&G: NexusIP
- Securam: WebLink
- Tecnosicurezza: Coren – TechMaster
- Cloud – App Operated
- Sera4

### 510: GSA Drilling and Repair with full instructions of Federal Standard 809 (Day 2 of 2)

See 410