



## COVERT INSTALLATIONS IN A HIGH-VOLTAGE ENVIRONMENT FOR LAW ENFORCEMENT 4-DAY COURSE / 40-HR

Instructor: Charles Pudwill

Retired: Washington State Fish & Game Wildlife Enforcement Division

**DATES:** April 1- 4, 2025

**Greater Houston Fire Marshal's Association** cordially invites you to attend 4-day-40 plus hours of hands-on workshops on the proper safety and related work practices and procedures for performing **"Covert Installations in a High Voltage Environment."** This intensive course consists of lectures, discussions, demonstrations, hands-on training, and practical experience.

**STUDENT COURSE FEE WITH EQUIPMENT ISSUED:** \$2,400.00 [40 Hr Payment Link](#)

[Class Registration link](#)

Students are given tools, a tool bag, safety equipment, FR rated lineman's shirt and pants, a Full FR body harness with FR lanyard, gloves, safety glasses and a hard hat to take back to their agency with an approximate retail value of \$1,300.

**DATES:** April 1-2, 2025

**SUPERVISORS COURSE FEE:** \$250.00 [Supervisor Payment Link](#)

### Two-Day Supervisors Course:

This two-day training will give supervisors the necessary skills to ensure that their Qualified Employees are using the proper safety-related work practices per agency policies and OSHA as required by the **Code of Federal Regulation 29 CFR 910.269**

- The fee includes in-class instruction and a certificate of completion program.
- The fee does **NOT** include meals, transportation, or lodging.
- The fee does **NOT** include a rental car which the student **will** need.

**COURSE TIMES:** Registration begins at 8:00 am on Tuesday, the first day of class. Classroom instruction begins at 9:00 am. The class concludes on Friday at 5:00 pm.

You should allow enough time when booking return flights, as no early class dismissals will be allowed.

**REGISTRATION DEADLINE:** March 1<sup>st</sup>, 2025

**CLASSROOM LOCATION:** Hosted by  
Sacramento FBI Office /S.M.U.D. – Sacramento Power Academy  
9268 Tokay Ln, Sacramento, CA 95829

**LIMITED SEATING** – Please register early to ensure availability. A minimum number of students must register for this course to take place. Registration will close once the maximum number of students has been reached. Course offered to **LAW ENFORCEMENT ONLY**. Course material is **LAW ENFORCEMENT SENSITIVE**.

**Law Enforcement Credential's required** to be admitted into the event.

**Working in a High Voltage Environment is DANGEROUS. Minor injuries, Serious Bodily injury, and Death can occur if Safety protocols and OSHA regulations are not strictly adhered to.**

**POLICY AND CANCELLATION DEADLINE: March 1<sup>st</sup>, 2025**

**Cancellation must be received in writing via email by 5:00 pm to [GHFMCTraining@outlook.com](mailto:GHFMCTraining@outlook.com) by the above date to avoid a late cancellation fee of \$250.00.** If an agency does not pay the late cancellation fee, it is the student's responsibility to ensure the fee is paid in full. A confirmation will be emailed when we have processed your cancellation request. If you do not receive a confirmation, please contact GHFMA to ensure your cancellation request is received. Students must complete all required responsibilities listed by the deadlines below to remain in the course and be admitted. If the tasks are not completed by the deadlines, a student may be dropped from the course. Full payment must be received before arrival for course training. **Students must submit either a personal check or credit card information that we will hold for 30 days until the agency payment is received.**  
**No substitutions after the cancellation date and no walk-ins.**

***IT IS THE STUDENT'S RESPONSIBILITY TO ENSURE PAYMENT IS RECEIVED BY THE DEADLINES.***

**Training Topics:**

Standards established in the **Code of Federal Regulation, 29 CFR, Section 1910.269.**  
**OSHA 29 CFR 12910.269 Electric Power Generation, Transmission and Distribution**

Safe work practices, emergency procedures, and other safety requirements about installing covert video devices in a high-voltage environment and streetlights. Students will learn skills and techniques necessary to attach covert video devices to different types of electrical and utility poles in various locations on those poles. Students will learn guidelines for AETT Traffic Safety and Environmental issues.

Students will receive instruction on conducting a site survey, developing and implementing a work plan, providing proper job briefings, and operating dual control, single stick, fully insulated aerial lift bucket truck. Students will learn skills and techniques necessary to connect the load line of the covert video device to a secondary service neutral and energized 120-volt secondary line. Students will also learn skills and techniques necessary to distinguish exposed live parts and determine the nominal voltage of exposed live parts.

Students will learn minimum approach distances, specified in **OSHA 29 CFR1910**, and the use of special precautionary techniques, personal protective equipment, insulating and shielding materials, and insulated tools for working on or near exposed energized equipment. Students will learn how to recognize 7200-volt primary distribution lines. Students will learn how to avoid hazardous situations when installing covert video devices. Students will be trained that every job has its pressures, to take the time to do it right, to do it safely, and to maintain a healthy respect for the High Voltage work environment.

***There must be at least "(2) Qualified Employees" present at the installation that are trained to handle emergencies.***

If your agency does not have additional Qualified Employees, your agency should consider sending additional personnel to this training.

Additional information or requirements such as "**Qualified Employee certification by Agencies,**" OSHA regulations, required inspections, refresher training, other state and local regulations, a minimum number of installs required per year, etc., are discussed in class.

OSHA states that Managers or Supervisors of Qualified Employees must have the skills necessary to ensure that Qualified Employees are using the proper safety-related work practices and must conduct inspections. Managers or Supervisors must also keep records to present in the event of an OSHA inspection. Managers and Supervisors are welcome to stay and observe as students complete their training, but it is not required.

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## HVE CLASS SCHEDULE AGENDA: SUBJECT TO CHANGE

\*\*Exact times depend on the student's skill level and flow of the course\*\*

### OSHA-based Technical Installations in a High Voltage Environment (40+ hours)

#### Tuesday 9 am-Noon

- Opening and Introductions
- Goals Intro and Overview of Class Content
- Code of Federal Regulations (CFRs)
- Understanding the National Power Grid
- Anatomy of an Electric Pole
- Live Wire Demonstration and Safety Video

#### 1 pm - 5 pm

- Aerial Lift Truck Safe Operations Video
- Aerial Lift Truck Operations
- Issue and Fit of safety harness, helmet, gloves, glasses, vest
- Harness Fit and Testing
- Aerial Lift Truck inspections and a walk-around inspection
- Mast controls with Hands-on familiarization
- Operating Aerial Lift Trucks and Bucket familiarization

#### 7 pm

- Aerial Lift Truck operation and Bucket practical familiarization

#### Wednesday 9 am-Noon

- Traffic and Workplace Safety
- Issue Tools
- Make and Conduct a dry run of electrical pigtail connections
- Review photos of Electrical configurations on electrical poles
- Safety with Highlights and **Emphasis "Safety First."**

#### 1- 5 pm

- Aerial Lift Truck Safety, Emergency Training (Man down drill)
- Live electrical pigtail installs on City Streets
- **Managers or Supervisor students are dismissed mid-late afternoon**

#### 7 pm

- Live electrical pigtail installs - City Streets

#### Thursday 9 am-Noon

- Classroom Safety and Power Theft videos
- Aerial Lift Truck Operations Review - Tool Relay

#### 1 - 5 pm

- Live electrical pigtail installs - City Streets

#### 7 pm

- Live electrical pigtail installs - City Streets

#### Friday 9 am-Noon

- Live electrical pigtail installs - City Streets

#### 1 - 5 pm

- Practical Test with Live electrical pigtail installations and pole mount box
- Review class materials and complete the Written Test.

***Students will be dismissed between 5-6 pm***

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**REGISTRATION INFORMATION REQUIREMENTS:**

Students must sign up via the GHFMC website to register for attendance at this course.

Due to equipment requirements, student weight should not exceed a maximum of 280 lbs. We are unable to waive this critical safety requirement.

Do not park marked vehicles near the bucket trucks.

No apparel with agency names is allowed near the bucket trucks.

Students must provide GHFMA with the following information when registering for this event.

***Students' cell phone numbers and Emergency Contact information, such as their name and phone number must be supplied.***

**Personal Protection Equipment needed information:**

- Height - In Feet Inches"
- Weight - In Pounds
- Shirt Size – Men's Sizes Small - XXX-Large (No female-specific sizing available)
- Chest Size - In Inches
- Pants Size - Waist x Length in Inches
- Glove Measurement - Sizes 8-11 **No Refunds or exchanges on gloves.**

**Proper Measurements instructions:**

To measure for your gloves: Hold up your hand with your fingers pointing upward, drop your thumb, and measure the circumference of the palm of your hand horizontally around the back and front of the palm area only, excluding the thumb. You must **ENSURE A SNUG MEASUREMENT**. Please don't measure too loosely. Please record in inches such as 8", 9", 10", or 11". You must go to the next largest size if you are between sizes.

**Optional Additional Items:**

OSHA-approved rain jackets or rain gear are not included in the course fee. Any jackets or rain gear worn during installations must meet current OSHA standards. The student or agency can purchase approved rain gear from a local supplier that sells lineman's FR gear or apparel. All electrical clothing and equipment supply companies should be aware of the OSHA regulations and be able to supply the required ASTM F887 standard Arc Flash gear.

**STUDENT NEEDS FOR COURSE:****Appropriate work boots or work shoes with non-slip soles are required.**

OSHA requires students taking the 40-hour course to wear rubber-soled, non-slip work boots or work shoes suitable for climbing in and out of Aerial Lift bucket trucks. Tennis shoes or regular shoes are **NOT** accepted due to safety reasons. Students will need an extra medium-sized suitcase or adequate room in their luggage to take equipment home. Equipment may also be shipped at a local shipping facility. The approximate weight of the tools the students will take back to their agency is approximately 32 lbs. Students are responsible for taking their equipment back to their agency. It is the student / agency's responsibility for shipping costs. If a previously made payment fails while the student is in class, the equipment will be held until payment is made.

Comfortable clothing that is appropriate for the weather conditions (jacket, etc.) and for getting in and out of the Aerial Lift trucks should be worn. Students taking the 40-hour course will be issued the following OSHA-approved items: a FR long-sleeved, FR lineman's shirt and OSHA-approved FR pants. No agency names or logos on apparel when doing training exercises or near the bucket trucks. Pen and paper will be needed for notes. If you have long hair, it must be pulled back during training exercises. No rings or bracelets are permitted during training exercises as they may damage the rubber Lineman gloves. Sunblock, sunglasses, jacket, Prescription glasses, required prescriptions, or EpiPen, if needed. Pictured agency ID. Course receipt with your name listed as the registered student. Payment, if not already paid. Water bottle and snacks, if you have room, you should pack a collapsible ice chest big enough for a few drinks and snacks for classroom time and outside activities.

**RECOMMENDED AIRPORTS:**

**Sacramento International Airport**  
6900 Airport Blvd, Sacramento, CA 95837

@25 minutes to the Hotel area.

**RECOMMENDED HOTELS:**

**Fairfield Inn & Suites Rancho Cordova**  
10745 Gold Center Dr  
Rancho Cordova, CA 95670  
916-858-8680

@20 minutes to the Hotel area.

**Homewood Suites by Hilton Rancho Cordova Sacramento**

10700 White Rock Rd  
Rancho Cordova, CA 95670  
926-589-1332

**PAYMENTS:**

We do not accept POs for payment or electronic payments.  
Course fees must be paid in full for a student to be admitted into course.

**REMINDER:**

**If a student arrives at class and payment has yet to be made, the student must submit either a personal check or credit card information that we will hold for 30 days until the agency payment is received.**

**CHECKS CAN BE MAILED TO:**

Greater Houston Fire Marshall's Association (713) 936-3002  
209 N. Main St.  
Pasadena TX 77506

GHFMA Tax ID #20-5277976

**REMINDER - CHECK PAYMENTS:**

- Check or money order made payable to GHFMA and must include the student's name(s) on the lower left corner of the check or with the accompanying documentation.
- Credit card payments must be made online - we cannot accept credit cards at the training site.

**IMPORTANT REMINDER:**

Please do not mail checks after the listed date as they will not be processed in time due to mail forwarding and processing times. Course fees must be paid in full to attend. If checks cannot be mailed by the deadline, students must bring a check to class and present it upon check-in on the first day. Email: [GHFMCTraining@outlook.com](mailto:GHFMCTraining@outlook.com) to document that check payment will be given upon check-in on the first day of this training. **If you have any questions, please call Ruben Lopez at 832-576-8100 or Email David Brannon (Chief – Fire Marshal) at [dbrannon@pasadenatx.gov](mailto:dbrannon@pasadenatx.gov).**

**REMINDER - DEADLINE DATES:**

**REGISTRATION: March 1<sup>st</sup>, 2025**

- Due to ordering equipment, Registration requirements will be strictly adhered to.

**CHECK DEADLINE: May 1<sup>st</sup>, 2025**

**CANCELLATION DEADLINE: May 1<sup>st</sup>, 2025**

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