



## **Gas Leak Academy Information Form**

Thank you for your interest in the Southern Cross Gas Leak Academy class. This program is designed to offer an introductory course for new technicians, office staff new to leak survey, and those who would like to refresh their training and knowledge on leak survey best practices. Below you will find the topics that will be covered in this class during the first two days. The Academy also offers a third half-day hands-on experience at the Gas Utility Training Academy (GUTA) with leak survey equipment to sharpen your skills. We encourage all attendees to bring the leak survey equipment they use if possible. We will also have our equipment on site as well.

### **Location:**

This course will be conducted at the Atlanta Marriott 475 Technology Parkway, Peachtree Corners, GA30092. This location is just down the road from the Southern Cross corporate office. You will find over a dozen options for hotels in the area that will meet your needs, or you can use our corporate code when booking online at the Marriott (VSX) to get our corporate rate. The hands-on portion of the training will be held at the Georgia Utility Training Academy (GUTA) located at 2200 GA-83, Monroe, GA 30655. The class size is set for 15 people to ensure a proper instructor to student ratio.

### **Cost:**

The cost to reserve a seat for a learner is \$1,500.00. This covers the training, light refreshments, and lunch for the class. In the case a student is not able to attend the training once registered we can swap that student for another however, we will not be able to cancel this class.

### **Time:**

Class will begin at 8 am and end at 5 pm on the first two days. For the third day of hands on training we will begin training at 8 am and will end by 1 pm to provide travel time for the employees to return home.

### **Onsite Training:**

If you have multiple people that you would like to attend this class and prefer that we teach this class at your facility, please feel free to contact us. We can travel to your location to provide this training. For more information please contact:

David Landry  
Technical Training Manager  
Southern Cross  
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### **Module 1 – History and Overview of Natural Gas**

**Learning Goal:** The learner will be able to explain the history of natural gas and basic characteristics and hazards of natural gas.

- History of Natural Gas
- Characteristics and Hazards of Natural Gas

### **Module 2 – Natural Gas Regulations**

**Learning Goal:** The learner will be able to explain how regulations have played a role in improving the natural gas pipeline system in the U.S.

- Importance of Pipeline Safety
- Regulation History and OQ requirements
- Current Regulatory Trends

### **Module 3 – Leak Survey**

**Learning Goal:** The learner will be able to explain the technologies used during a survey.

- Early Technology & Practices
- Current Technologies
- Future Technologies
- Leak Survey Methods
- Factors that Change Prescribed Leak Survey Intervals
- Inspections Completed During a Leak Survey

### **Module 4 Gas System Overview (Lots of pictures)**

**Learning Objective:** The audience will be able to understand an operator's overall system.

- Transmission Pipeline Overview - Pictures of above ground and below ground, urban areas, etc.
- Class Locations - Cover deeper in the previous module.
- Business Districts Overview
- Distribution System Overview- Pictures of above ground and below ground, urban areas, etc.
- Meter Sets
- Casings
- Survey Limitations

### **Module 5 Abnormal Operating Conditions**

**Learning Goal:** The audience will be able to define and recognize what an AOC is in the field.

- Definition of AOC's



## **Module 6 Leak Survey Transmission and Distribution Lines**

**Learning Goal:** The audience will be able to describe the process of carrying out a leak survey on natural gas pipelines.

- Safety considerations when performing a leak survey
- Leak survey practices/processes
- Considerations for surveying Transmission lines
- Considerations for surveying Distribution lines in business areas
- Considerations for surveying Distribution lines in Residential areas
- Considerations for Performing Mobile Leak Survey

## **Module 7 Outdoor leak investigation-** reminders of ignition where fit

**Learning Goal:** The audience will understand how to pinpoint and grade above ground and below ground leaks and identify when gas might be migrating into a building. The audience will also understand how to respond if gas is suspected inside a building.

- Common safety hazards
- Above and Below Ground Investigation
- Pinpointing and classifying leaks
- Leaks near or at the building
- Inside leaks
- Indoor Equipment
- Grading leaks - operator specific (get in advance)

## **Module 8 Visual Inspection for Corrosion**

**Learning Goal:** The audience will be able to describe the difference between surface rust and pitting and understand how operators protect their system from corrosion.

- Corrosive reactions
- Common causes for corrosion
- Pipeline coatings
- Above ground corrosion inspection
- Generalized Corrosion
- Localized pitting corrosion
- Above ground inspections