



Your Compliance Connection™

A FOURTH DECADE OF SERVICE

Industrial Consultants, LLC is in its fourth decade of serving the training needs of companies like yours, companies which must comply with the health and safety regulations enacted by OSHA and/or the EPA.

Industrial Consultants, LLC is focused on the food, petrochemical, power generation and pharmaceutical industries. The comprehensive regulations governing ammonia systems are ever-changing, and are overseen by OSHA and the EPA. Expertise is needed at all levels to ensure compliance. Industrial Consultants, LLC continues to provide this expert assistance and guidance to meet all your compliance needs.

Industrial Consultants, LLC is totally dedicated to assisting you in achieving your compliance goals, taking the mystery out of compliance, and helping you gain control of your safety and training needs.





Compliance Without Confusion

Each of our widely differing programs must meet specific Occupational Safety and Health Administration (OSHA) and/or Environmental Protection Agency (EPA) requirements for training your personnel. However, continuing annual compliance is certainly not a simple task. **Industrial Consultants, LLC** will take the mystery out and help you gain control of your safety and training needs.

Industrial Consultants, LLC has been training facility personnel for over four decades. Over 100,000 of our students have benefited from current, comprehensive, complete, and accurate training. You may rely on Industrial Consultants, LLC to keep your organization up-to-date on the ever-changing OSHA and EPA training requirements for your facility. One phone call or visit to our website will give you a complete description of all of our products and services.

TRAINING PROGRAMS

✓ **ON-SITE** ✓ **REGIONAL**

**When You Need Them,
Where You Want Them**



HAZMAT

- ✓ **TECHNICIAN LEVEL**
- ✓ **OPERATIONS LEVEL**
- ✓ **ON-SCENE INCIDENT
COMMANDER TRAINING**
- ✓ **REFRESHER TRAINING**



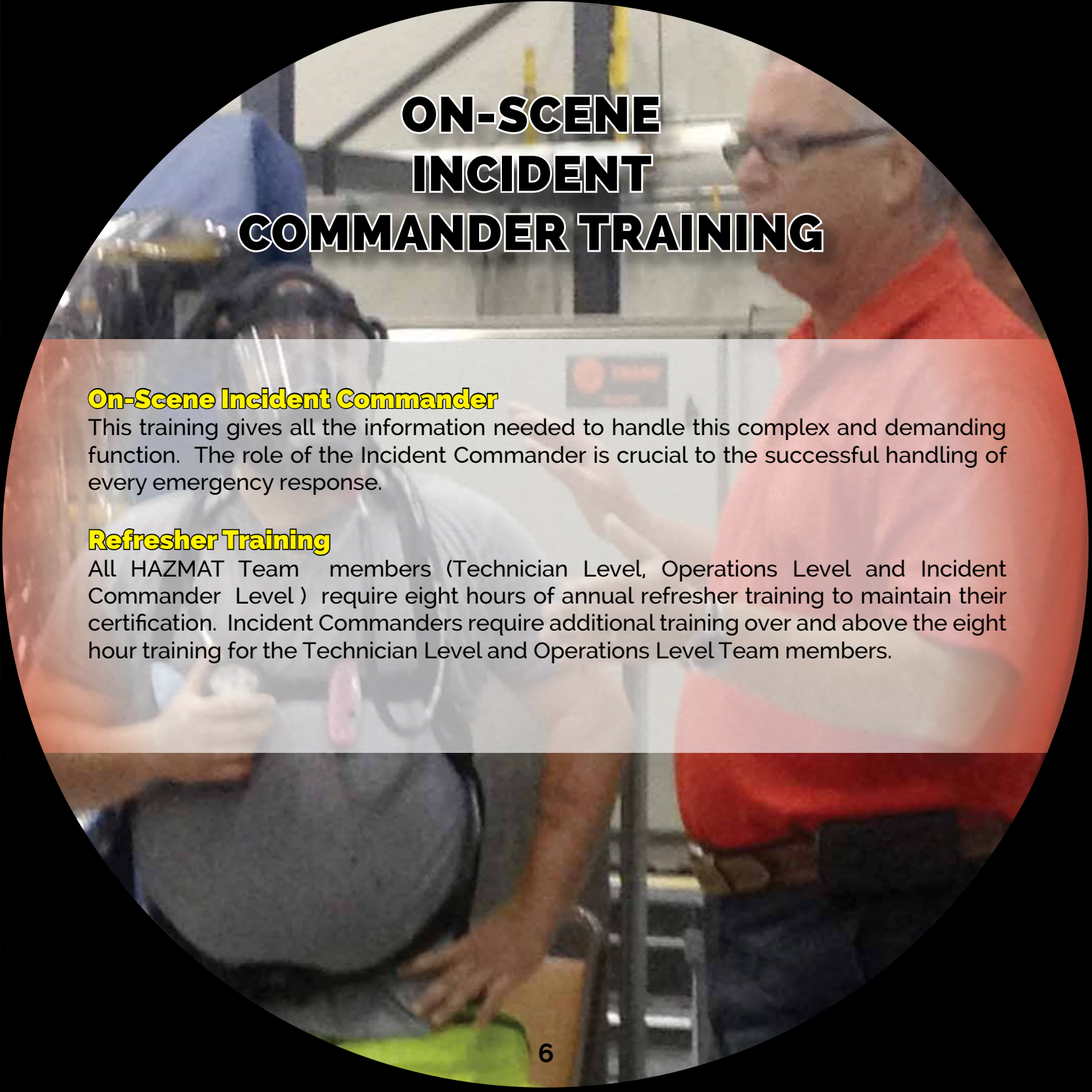
EMERGENCY RESPONSE TEAM TRAINING

Technician Level

Emergency Response Teams must have a minimum of 24 hours (fixed facility with no transportation issues) of training before they are allowed to handle spills and/or leaks of hazardous materials. If there are transportation issues, then 32 hours and/or 40 hours of training may be required.

Operations Level

Any HAZMAT Team member (other than Technician Level and Incident Commander trained team members) are required to have at least eight hours of operations level training (support staff).



ON-SCENE INCIDENT COMMANDER TRAINING

On-Scene Incident Commander

This training gives all the information needed to handle this complex and demanding function. The role of the Incident Commander is crucial to the successful handling of every emergency response.

Refresher Training

All HAZMAT Team members (Technician Level, Operations Level and Incident Commander Level) require eight hours of annual refresher training to maintain their certification. Incident Commanders require additional training over and above the eight hour training for the Technician Level and Operations Level Team members.



REFRIGERATION

✓ **LEVEL I - BASIC**

✓ **LEVEL II - INTERMEDIATE**

✓ **LEVEL III - ADVANCED**

✓ **RETA**

• **CARO**

• **CIRO**

• **REVIEW**

• **CUSTOMIZED**

A circular graphic with a background image of an industrial facility. In the upper half, an American flag is visible. In the lower half, there is a large, dark, cylindrical industrial vessel, possibly a storage tank or part of a refrigeration system, with some pipes and structural elements visible. The text is overlaid on this background.

AMMONIA REFRIGERATION TRAINING

These programs are designed to help your employees develop a complete understanding of your refrigeration system and its operation. Industrial Consultants, LLC offers these training courses both regionally, or at your site - customized to your specific ammonia refrigeration system.

Refrigeration Training-Level I provides an elemental understanding of the principles and components of commercial ammonia refrigeration. Attendees will develop a better understanding of the need for safer operating conditions and how to improve the efficiency of your refrigeration system.

Refrigeration Training-Level II provides advanced understanding of single and two-stage systems, as well as basic electricity, control circuits and proper pump-down techniques. This can also serve as a three-year refresher for Process Safety Management training.

RETA CARO/CIRO

The following courses are taught by a RETA Authorized Instructor (RAI)

- ✓ RETA Certified Assistant Refrigeration Operator (CARO) Course
- ✓ RETA Certified Industrial Refrigeration Operator (CIRO) Course
- ✓ RETA CARO/CIRO Refrigeration Review Course

(The RETA courses above are intended to help the student prepare for, but not walk them through the exam(s).)

Detailed course outlines are available on our **website: www.ammonia.com** or by contacting our office directly.



PSM/RMP

- ✓ **PROGRAM DEVELOPMENT**
- ✓ **COMPLIANCE AUDITS**
- ✓ **PHAs**
- ✓ **VENTILATION ANALYSIS**
- ✓ **RELIEF SYSTEM ANALYSIS**
- ✓ **MECHANICAL INTEGRITY**
- ✓ **RMP SUBMITTAL**
- ✓ **RMP HAZARD ASSESSMENT**
- ✓ **AMMONIA-LITE PROGRAM™**

PROCESS SAFETY MANAGEMENT (PSM)

Industrial Consultants, LLC has assisted many companies in the establishment and maintenance of their Process Safety Management program. Many of those companies, while they understood the mission, did not have the personnel or the physical resources necessary to complete the task. The role for Industrial Consultants, LLC in your program can be:

- ✓ Develop your PSM program for you on a turnkey basis, or assist you in the coordination or development of any phase or element
- ✓ We can be your PSM coordinator short or long term. We can be on site weekly, monthly or quarterly, whatever your requirements may be.
- ✓ As your internal operating systems evolve, change, and grow, your PSM program will need periodic evaluation. Industrial Consultants, LLC can provide all the assistance you may need in evaluating your PSM program to determine if it is still in compliance.



Compliance Audits

Your Process Safety Management program must pass a required compliance audit every three years to determine if your program is working effectively. Industrial Consultants, LLC conducts these audits and provides the necessary verifications, or recommended changes, for your continued compliance. We currently offer four levels of audits, Baseline (3 Days), Standard (3-4 Days), Technical (4-5 Days) and National Emphasis Program (5 Days).

Process Hazard Analysis (PHA)

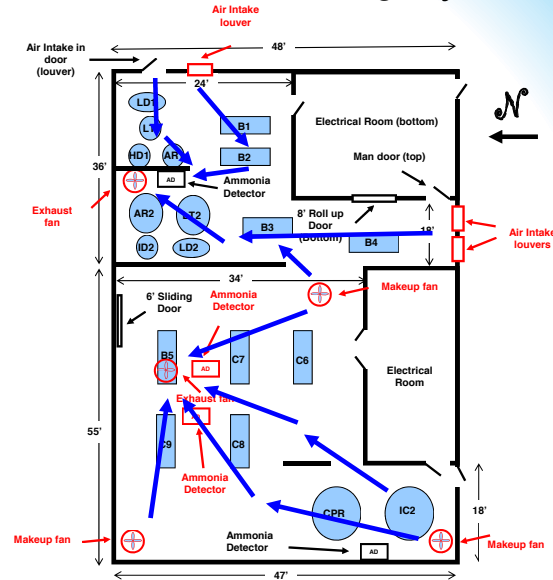
A PHA is required when you install new equipment or modify existing systems. Additionally you are required to reevaluate and revalidate your Process Hazard Analysis every five years. This is the perfect time to call Industrial Consultants, LLC to help you through the process.



Ventilation Analysis

Analysis of the existing ventilation system to ensure adherence to the applicable codes and standards. This will include detector placement, controls, equipment, alarms and air flow patterns. Recommendations will be made to address any shortcomings as necessary.

Machinery Room Air Flow Pattern Emergency



Relief System Analysis

Analysis of the existing relief system to ensure adherence to the applicable codes and standards. This will include review of the sizing requirements for each relief valve as well as the discharge piping and header systems. Recommendations will be made to address any shortcomings as necessary.



MECHANICAL INTEGRITY INSPECTIONS

A thorough, independent visual inspection of the ammonia refrigeration system must be performed every five years. This inspection will help to ensure that the refrigeration system is being properly maintained and operated.

Further testing, such as Non-Destructive, can be warranted depending on the results of the independent inspection. Industrial Consultants, LLC can perform this visual inspection of your ammonia refrigeration system and assist in developing any further testing resulting from this inspection.

A circular frame containing a photograph of the U.S. Capitol building in Washington, D.C. The building is white with a large dome and is surrounded by green lawns and trees. The sky is blue with some light clouds.

RISK MANAGEMENT PROGRAM (RMP)

EPA regulations stipulate that your Risk Management Program (RMP) has to be in place for new or expanded facilities that exceed 10,000 lbs. of ammonia in their refrigeration systems. Industrial Consultants, LLC can either develop your RMP, and/or update your existing RMP. This includes any portion from complete program development, off-site consequence analysis (OCA) and RMP-submittal. Additionally, we can assist with updating and resubmission of your RMP. Call or visit our website www.ammonia.com today to discuss your need for compliance with the EPA Risk Management Program.

Federal Register/Vol. 89, No. 48/
Safer Communities by Chemical Accident Prevention
Under the Clean Air Act Monday, March 11, 2024/
Rules and Regulations Safer Communities by
Chemical Accident Prevention

**U.S. ENVIRONMENTAL
PROTECTION AGENCY**

AMMONIA-LITE PROGRAM™

Less than 10,000 lbs

When a facility has less than 10,000 pounds of ammonia in the system, both OSHA and EPA use their respective General Duty Clause(GDC) to inspect and generate citations. These clauses describe responsibilities owners and operators have for being diligent in preventing chemical releases. This includes both an employer's recognition of hazards, and **MOST** importantly the **industry's** recognition of hazards! The most prominent ammonia refrigeration consensus standards are issued by IAR and ASHRAE-15.

Complying with a General Duty Clause basically involves the following:

- ✓ Identification and assessment of process hazards
- ✓ Maintaining a safe process system
- ✓ Minimizing consequences of any ammonia release
- ✓ **MOST IMPORTANT!** - Adhering to industry codes and standards
(NOTE: This is commonly referred to as "Recognized and Generally Accepted Good Engineering Practice" - RAGAGEP.)

Compiling and updating the following information is essential to GDC compliance:

- ✓ Process Safety Information (PSI), including current P&ID's
- ✓ Process Hazard Analysis (PHA) with a discussion of potential release scenarios and their impacts
- ✓ Operating Procedures
- ✓ Mechanical Integrity and Preventive Maintenance
- ✓ Incident Investigation
- ✓ Emergency actions, planning, and response
- ✓ Management System / Executive Summary
- ✓ Contractors
- ✓ MOC's
- ✓ Training
- ✓ Self Audits
- ✓ Hazard Assessment



ENVIRONMENTAL PROGRAMS

SWPPP – Storm Water Pollution Prevention Program

SWPPP, a requirement of the 1972 amendments to the Federal Water Pollution Control Act (the Clean Water Act) through the National Pollutant Discharge Elimination System (NPDES), addresses a facility's pollutants and helps to identify the Best Management Practices (BMPs) the facility is using to reduce those pollutants in stormwater. Your SWPPP has to be updated regularly to reflect the current site conditions and BMPs. Annual training is required to ensure understanding and adherence to your SWPPP. Industrial Consultants, LLC has the capabilities to handle all aspects of developing, maintaining and training for your SWPPP.

SPCC – Spill Prevention, Control and Countermeasures

Due to the danger spills cause to public health and the environment, every effort must be made to prevent spills and to clean them up promptly once they occur. That's the purpose of the Spill Prevention, Control, and Countermeasure (SPCC) program. The SPCC rule requires facilities to develop, maintain, and implement a spill prevention plan. These Plans help facilities prevent spills, as well as control a spill should one occur. This applies to any facility with the "potential to discharge oil to waters of the U.S.", and who stores oil or petroleum products on-site in excess of 1,320 gallons. Let Industrial Consultants, LLC help you through the process of development and implementation of your SPCC.

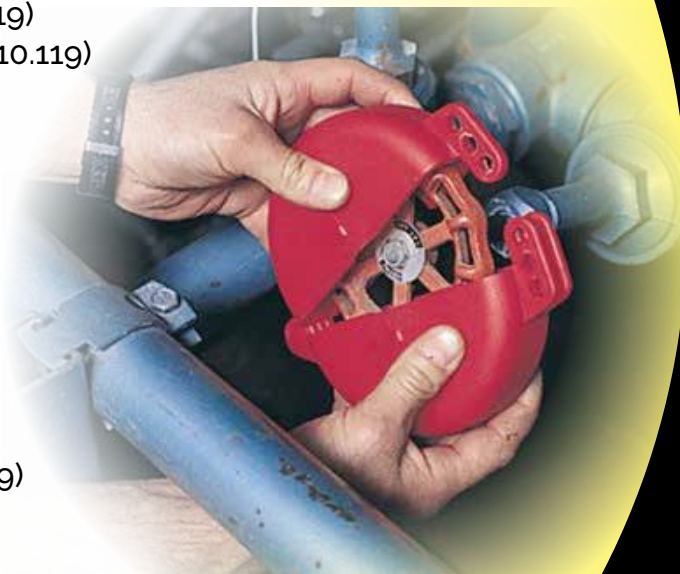
SAFETY AND SUPPORT SERVICES

Industrial Consultants, LLC expertise can be of extra benefit to help create, review, or update any or all of your safety programs and take the confusion out of compliance for you. Industrial Consultants, LLC provides a seamless extension when training your staff for any of the following programs:

- Standard Operating Procedures (1910.119)
- Maintenance Operating Procedures (1910.119)
- Emergency Response (1910.120)
- Emergency Action (1910.38)
- Fall Protection (1926.500-503)
- Pre-planning (1910.38/120)
- Confined Space Entry (1910.146)
- Lockout/Tagout (1910.147)
- Hazcom (1910.1200)
- Respiratory Protection (1910.134)
- Incident Command (1910.120)
- Operator Training (40 CFR Part 68)
- Refrigeration Operator Training (1910.119)

Other Services

- Boiler Operator Training
- Refrigeration System Energy Analysis and Optimization
- Valve Tagging and Line Labeling



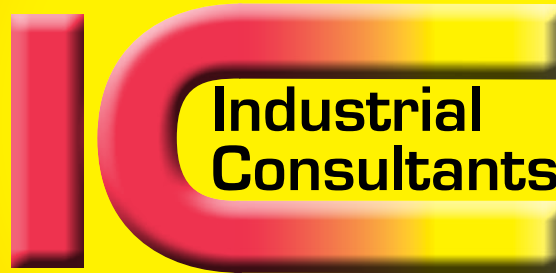
ABOUT US

Over the years, Industrial Consultants has been working within the ammonia refrigeration community. Remarkably, we have come to realize that our business, our clients and our competitors are more than the net worth presented by the financial spreadsheets.

Our company is a collection of individuals in pursuit of God's purpose for our lives. Additionally, we endeavor to develop our specific gifts for the betterment of **Industrial Consultants**, and the people we meet each and every week.

The bottom line for **Industrial Consultants** is we have adopted the teachings of Jesus Christ and He sums up our company's heart in John 15:11-13, (NIV) *"I have told you this so that my joy may be in you and that your joy may be complete. My command is this: Love each other as I have loved you. Greater love has no one than this: to lay down one's life for one's friends."*

- ✓ **Emergency Response Training**
- ✓ **Ammonia Refrigeration Training**
- ✓ **Process Safety Management**
- ✓ **EPA Risk Management Programs**
- ✓ **Safety Support Services**
- ✓ **Boiler Operator Training**
- ✓ **Environmental Programs**
- ✓ **Mechanical Integrity Inspections**



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