CHEMICAL SECURITY SUMMIT



ChemLock

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#ChemicalSecurity

CISA Programs to Secure Chemicals



Chemical Facility Anti-Terrorism Standards (CFATS) Regulation

- ► Facilities must report Chemicals of Interest
- High-risk facilities create tailored chemical security plans that meet CISA's physical and cyber security standards

Proposed Ammonium Nitrate Security Regulation

- ➤ Point-of-Sale reporting of AN purchases
- ► Final rule has not been promulgated

Regulatory



ChemLock

- ➤ Voluntary tools and services to facilitate facility security
- Open to all facilities with dangerous chemicals



International

- Global Congress on Chemical Security and Emerging Threats
- International Testing project

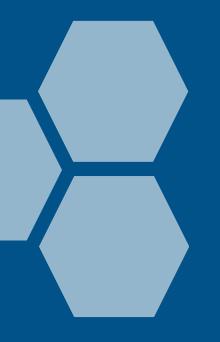
Bomb-Making Materials Awareness Program (BMAP)

Outreach, training, and awareness Voluntary



Chemical Facility Security Initiatives

Point-of-Sale Explosive Precursor Initiatives



CISA ChemLock Services







Know your chemicals.

Lock in your security posture.



Dangerous Chemicals



Toxics and Toxic Precursors

Can cause death or serious injury through inhalation

► Examples: Ammonia, chlorine



Flammables

Can create a vapor cloud that explodes

► Examples: Butane, propane



Explosives and Explosive Precursors

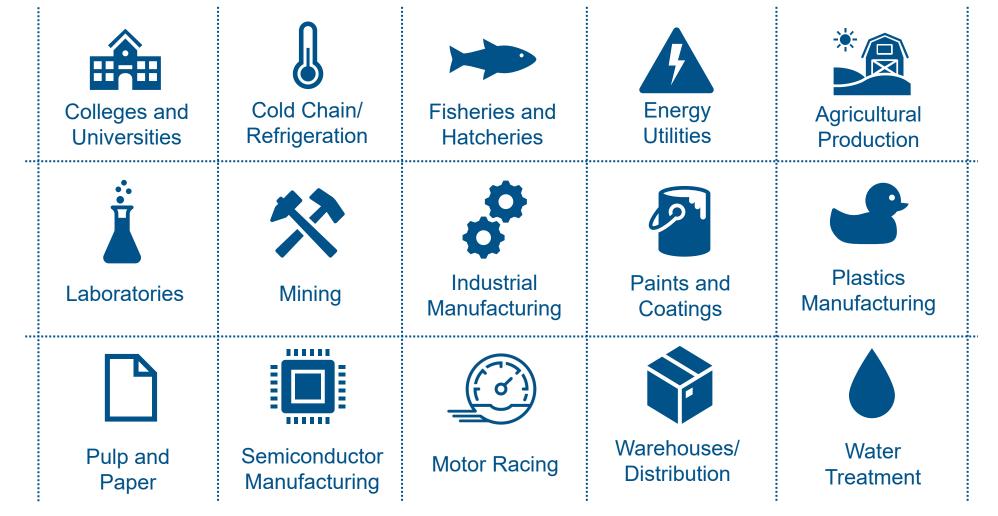
Can be used to create an explosive device

Examples: Ammonium nitrate, hydrogen peroxide





Industries with Dangerous Chemicals





ChemLock Services and Tools



- Security awareness consultations
- ► Security posture assessment
- Actionable security planning



ChemLock Resources

- ► Security planning guidance
- Security planning template
- ► Fact sheets and best practices



Exercises and Drills

- Chemical security exercise templates
- CISA-facilitated tabletop exercises



Training Courses

- ► Introduction to Chemical Security
- Secure Your Chemicals Security Planning



Special Access to CISA Services

- ► CISA Active Shooter Preparedness
- Cyber Security Evaluation Tool (CSET) Demo



All ChemLock services are completely voluntary and no cost.

On-Site Assessments and Assistance



Which security measures will best enhance security at your facility?

Risk management processes

Cyber and physical security gap assessment

Assessment of existing security measures

Recommendations for adding or enhancing security measures

Assistance in developing tailored security plans





Facilities can request on-site assessments and assistance at <u>cisa.gov/chemlock</u>.

ChemLock Publications

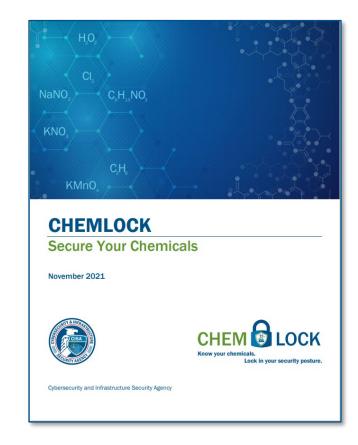


Guidance Documents:

Helps facilities build a step-by-step chemical security plan tailored to their business model and unique circumstances

Fact Sheets: Focuses on a particular aspect of chemical security

Flyers: Brings general awareness to chemical threats and need for chemical security measures







Training Courses



ChemLock Training 1 – Introduction to Chemical Security

An introductory course that provides an overview to chemical security and identifies key components for chemical security awareness.

ChemLock Training 2 – Secure Your Chemicals: Planning

An in-depth course that:

- ▶ Provides an overview of the ChemLock: Secure Your Chemicals resource
- Identifies elements of a security plan, examples, lessons learned, and best practices
- ► Walks through how to create a tailored, scalable security plan



Exercises and Drills



- CISA Tabletop Exercise Packages (CTEPs), drills, and general materials to help conduct exercises tailored to chemical security
 - Active Shooter
 - Drone Threat
 - Cyberattacks
 - Fire as a Weapon
 - Active Threat Communication
 - Complex Coordinated Attack
 - Edged Weapon
 - Major Earthquake

- Vehicle Ramming
- Improvised Explosive Device
- Vehicle-Borne Improvised Explosive Device
- Theft and Diversion
- Insider Threat
- Chemical Release/Spill
- Civil Unrest



Facilities can request live exercise that are tailored to the needs and requests of the participating facility at <u>cisa.gov/chemlock</u>.

Special Access to CISA Services



- ChemLock provides access to these CISA services:
 - Active Shooter Preparedness
 - Cyber Security Evaluation Tool (CSET)
- Services are provided specifically for ChemLock participants
- Information on additional CISA services is available at <u>cisa.gov/chemlock</u>.





What Is an OAA Visit?



An Outreach Assessment and Assistance (OAA) visit is a ChemLock service conducted to provide expert chemical security consultative services and technical assistance to chemical facilities that are not high-risk under the Chemical Facility Anti-Terrorism Standards, CFATS (6 CFR Part 27).

Type of Visit	Service Provided		
Level 1: Security Awareness Consultation	Identify security concerns associated with certain chemicals		
Level 2: Security Posture Assessment	Provide a physical and cyber security gap assessment and offer options for facilities to consider to enhance security		
Level 3: Security Planning Visit	Deliver assistance in developing a tailored security plan		



Level 1 - Security Awareness Consultation

Visit Activities

A L1 Security Awareness Consultation may be conducted in-person or virtually and consists of the following activities:

- Introducing the facility security team's roles and responsibilities
- Identifying and discussing the facility's chemical holdings
- Outlining the fundamentals of the risk equation and how it applies to the facility's chemical holdings
- Introducing ChemLock security goals

Visit Outcomes

The facility will understand the potential threats and vulnerabilities of their chemical holdings, be introduced to the risk equation, and be able to start outlining their security goals.





Level 2 - Security Posture Assessment

Visit Activities

A L2 Security Posture Assessment is conducted inperson following the Security Awareness Consultation and consists of the following activities:

- Defining and discussing overarching security goals (Delay, Detection, Response, Cyber, Policies/Plans/Procedures)
- Identifying and assessing current facility security measures compared to the desired state of security while presenting available security measures
- Sharing ChemLock voluntary tools and resources to drive cost-effective security improvements
- Develop options for consideration to improve security tailored to facility needs

Visit Outcomes

The facility will gain a deeper understanding of the ChemLock security goals and receive options for consideration to improve their current security posture.





Level 3 - Security Planning Visit

Visit Activities

A L3 Security Planning Visit is conducted in-person following the Security Posture Assessment and consists of the following activities:

- Working with the facility's security team to revise or construct a holistic chemical security plan
- Assessing existing chemical security measures and reviewing options for consideration to include in the security plan with facility input

Visit Outcomes

The facility will have a new or revised security plan that is tailored to address the facility's security risks and meet their security goals.





What ChemLock Services Are Available?

	Facility with Dangerous Chemicals	Untiered Facility Under CFATS	High-Risk Facility Under CFATS
On-Site Assessments and Assistance			X
ChemLock Resources			
Exercises and Drills			
Training Courses			
Special Access to CISA Services			





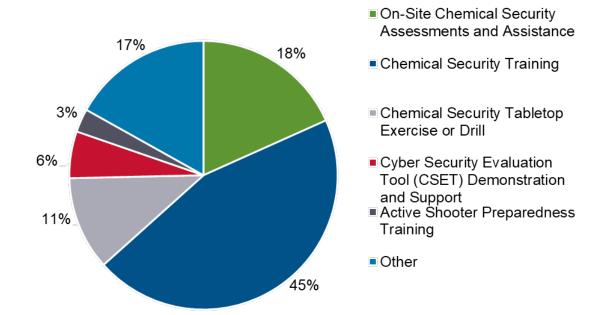


Current Status and Future State





Program Updates



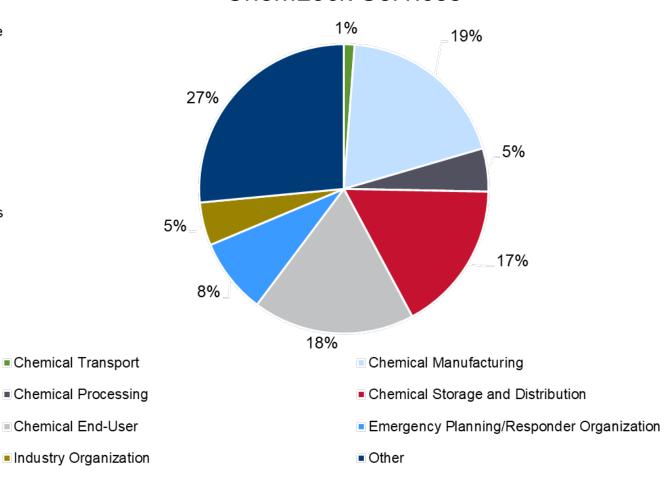
Most requested Services



Types of Facilities Request ChemLock Services

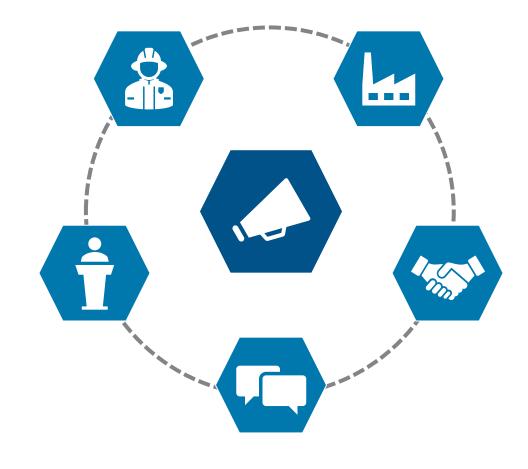
Chemical Transport

Chemical End-User



Spreading the Word – Increasing ChemLock Participation

- Chemical Facility Contacts
 - Outreach to untiered facilities
- Engaging Stakeholder Networks
 - Local Emergency Planning Committees (LEPCs)
 - Private Organizations
 - Other Conferences
- Seeking opportunities and open to ideas





ChemLock Offerings in Development

- New Training: Security Awareness
- New Materials
 - Best practices
 - Tools for employees
 - Training tools
- Drills
- Incentives Program





How Do I Sign Up for a ChemLock Service?

- Visit <u>cisa.gov/chemlock</u>
- Fill out our short service request form
- CISA will contact you to follow up about the service you are requesting

Questions about ChemLock?



ChemLock@cisa.dhs.gov



cisa.gov/chemlock



ChemLock Service Request Form

Thank you for your interest in the ChemLock Program. ChemLock services help facilities that possess dangerous chemicals understand their potential vulnerabilities and identify security options for addressing them.

Please complete this form to request contact from a CISA representative to discuss a ChemLock Service.

* 1. Select the ChemLock service you are requesting.

If you would like to request multiple services at this time, please select 'Other' and list all desired services in the text field provided.

- On-Site Chemical Security Assessments and Assistance
- Ohemical Security Training
- Ohemical Security Tabletop Exercise or Drill
- Oyber Security Evaluation Tool (CSET) Demonstration and Support
- Active Shooter Preparedness Training



Example ChemLock Service Request Form

SCAN HERE TO LEARN MORE **ABOUT THE CHEMLOCK PROGRAM!**



cisa.gov/chemlock

