

May 26, 2021

Lee County Planning Committee for Stimulus Package  
112 East Second Street  
Dixon, IL 61021

Dear Committee Members,

The Lee County Fire Chiefs are asking for assistance in funding for an important project. Our departments are responsible for the safety of 35,000 Lee County residents, their properties, and critical infrastructure. For the fire service, that responsibility requires frequent and applicable training specific to the incidents that we are tasked to respond. Live fire training is a critical aspect of that applicable training. Nationally, structure fires are decreasing in frequency, which now makes training on how to safely combat them more important than ever for our departments. A local live-fire training facility would be a tremendous resource for the departments in Lee County to train, as fire training is imperative to producing qualified firefighters. Efforts have been made to obtain the training facility funding through grant acquisition the last two years, unsuccessfully. Our budgets simply do not support this capital project. We are asking for a one-time monetary commitment of \$450,000 from Lee County to fund the purchase and construction of a live-fire training facility.

The overall goal of this project is to develop a best practice training facility which will provide firefighters in Lee County with real-life, hands-on training experiences in a safe environment prior to using those acquired skills in a potentially life or death moment. Objectives of this project will include the following: 1) Train 100% of firefighters in participating departments to a minimum of Basic Operations Firefighter level; 2) Develop ten (10) individuals as "train the trainers" so there are a sufficient number of trainers to meet the demands for the training facility; 3) Decrease property damage and lessen injuries due to more trained firefighters; 4) Increase financial savings to departments who won't have to send vital personnel to other training facilities; and 5) Increase interoperability of fire departments during mutual aid responses. If funding is provided for this project the proposed development of the multi-story training environment will improve firefighter safety and facilitate greater interoperability among fire departments when responding to mutual aid and automatic aid events. All of the above-mentioned objectives mean an increase to the safety and services provided for the citizens of Lee County. Also, it's important to note that there is no current local multi-story training facility similar to the one being proposed in this application. The closest facility of this nature is approximately one (1) hour away from the City of Dixon, and is already being shared by multiple fire departments in that vicinity. The facility being proposed will be constructed on property currently owned by the City of Dixon, next to one of the municipality's water towers. The direct day-to-day responsibilities of the facility will fall on the Dixon City Fire Department because of the location. Beyond that however, the training facility will be available for the ten (10) other departments to use regularly in meeting the training needs of their firefighters.

The proposed fire training unit will educate firefighters on rapid intervention teams, coordinated fire attack, incident command, and search and rescue operations. It will also help satisfy all practical firefighting training needed for Basic Operations Firefighter certification. The multi-story training facility will be a container system with burn chambers, observation port for the instructor to monitor trainees, door entry prop, stairs for egress, vertical rescue opening and a pitched and flat roof for cutting areas. This will allow the training to take place locally, thus saving the departments significant expenses related to out of town training and it will keep department members close should their services be needed for real emergencies. Besides fire related training, the unit will provide capabilities to conduct technical rescue and hazmat training. Our local law enforcement will also be able to utilize the facility for their tactical response training and unified command practice. Any future costs associated with the facility will be absorbed by Blackhawk Firefighter's Association and participating agencies.

Overall, this project is a great investment for keeping residents in this region safe and for training firefighters up to the appropriate certifications. At the proposed \$450,000 funding contribution, over the 20-year life span of the facility, the average cost per resident protected is approximately \$.64 cents. A minimal cost to improve the effectiveness of the 250 firefighters in Lee County. Also, with the ability to conduct multi-company live fire training, our departments will get increased points for their ISO (Insurance Services Office) rating. This rating determines how prepared a fire department is to combat a structure fire in their district and this rating helps insurance companies determine property insurance costs. A lower ISO score for a fire department means lower property insurance costs for businesses and potentially residents.

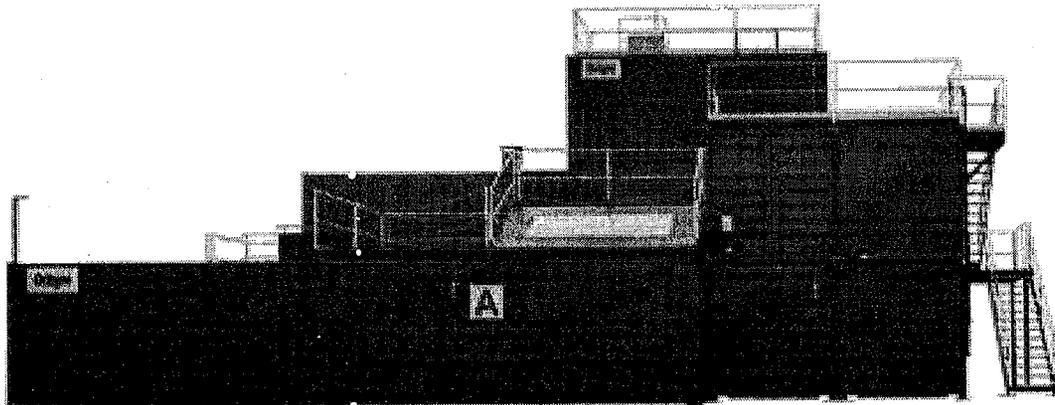
As Fire Chiefs we are committed to providing the best service for our Lee County residents. Having the resource to properly train our firefighters has never been more important. We thank you for your consideration of this funding and are available for any questions.

Appreciatively,

Lee County Fire Chiefs

## Dräger Swede Survival System Phase 5 – Multi-Story

Fighting fires in multi-story, multi-fire environments is one of the biggest challenges a firefighter can face. Part of the Dräger Swede Survival System, the Phase 5 trainer lets you replicate this environment to teach the complexities inherent in multi-story structures with multiple fires occurring simultaneously.



## Benefits

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### **Proven system, training included**

Class A Dräger Swede Survival Systems combine purpose-built training units with Dräger-certified instructional programs that train firefighters on fire behavior in different situations. As a result, you can continually build the abilities and confidence of firefighters. The Phase 5 system is an excellent knowledge-based training environment that gives firefighters first-hand experience of multiple fire scenarios in a controlled setting.

At Dräger, we believe in a progressive learning process when teaching the characteristics of fire. Our instructional program can be traced to the multi-phased live fire training program developed by the Swedish Rescue Services Agency in Skovde, Sweden.

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### **Five-compartment design enables diverse scenarios**

The standard Phase 5 configuration is a fully-insulated, Class A 5-container design, including fire compartments on the first and second floor and three cold chambers for staging, approach, and search and rescue operations. The structure also has interior and exterior stairs, first and second floor entry points, and access windows.

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### **Rugged construction for long-term use**

The chamber walls and ceiling are lined with high temperature insulation material that is protected behind a seal-welded layer of 11-gauge steel. This protects the structural integrity of the container from the grueling temperature swings the container is designed to withstand over many hundreds of training evolutions.

The burn chambers are designed for sheets of Oriented Strand Board (OSB) to be placed along the walls, ceiling, and doors. Burn chamber floors are lined with concrete paving stones and the structure includes a ventilation system. A number of additional options can be added to the standard configuration, allowing the system to meet your specific requirements.

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### **Real-world fire scenarios**

The Phase 5 system is an indispensable component to any fire training curriculum because it allows participants to train on a variety of fire scenarios, including:

- Fire attack with hydraulic ventilation
- Vent Enter Isolate Search (VEIS)
- Firefighter down, missing, or trapped
- Search and rescue
- Air management training
- Mayday training
- Multiple fires

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### **Two-day instruction certification workshop**

The Dräger Swede Survival Phase 5 System includes a two-day train-the-trainer workshop for up to 10 instructors. This workshop is conducted by instructors who have extensive experience training various evolutions in the Dräger Swede Survival Systems. This training and certification process ensures that your instructors become thoroughly familiar with the safe and effective use of the Phase 5 training system.

Swede Phase 5 training is designed to meet the Job Performance Requirements listed in the NFPA 1001 Firefighter 1 directives. While following standardized training procedures, our certified instructors can customize elements of the training to address specific design characteristics of your system. These may include:

- Rappel techniques
- Denver Drill techniques
- Confined space entry
- Forcible entry door
- SCBA confidence training

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### **Classroom preparation**

Included in the training is a 4-hour classroom session that provides an extensive background on the Phase 5 structure and various scenarios that make up the live training.

Before participants enter the chamber, they will have a comprehensive understanding of the design and purpose of the various compartments and props, simulation techniques, safety standards, and detailed training expectations.

Participants receive expert instruction on their roles during the actual physical training exercises and learn what tools will be used during the hands-on training, including nozzle techniques and proper use of thermal imaging cameras to assess the fires.

A mandatory test at the end of the classroom session verifies that participants are prepared for the live segment of the training. Training on methods of tear down and set-up for subsequent evolutions will also be a part of every session—all complimentary with purchase of a Swede Phase 5 system.

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### **Expand your training capabilities with the Phase 5 Modified**

Expanding on the standard Phase 5 design, the Phase 5 Modified structure includes a double-wide burn chamber, four or more cold containers, and a variety of additional fire attack props—including a flat roof prop, a Denver Drill prop, and angled ventilation. The Phase 5 Modified design can be further customized to meet the specific requirements of your fire department.

Because of our modularized approach, we can easily incorporate new props, change the container arrangement, and include additional burn chambers, stairwells, and levels—even to existing systems. As a result, you can maximize your training output at a fraction of the cost of permanent concrete structures.

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### **System includes**

- Complete Dräger Swede Survival Phase 5 System
- 2-day training course for up to 10 instructors
- Instructor manuals and SOPs
- Instructors receive Certification to Instruct the Dräger Curriculum upon completion

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### **Training course includes**

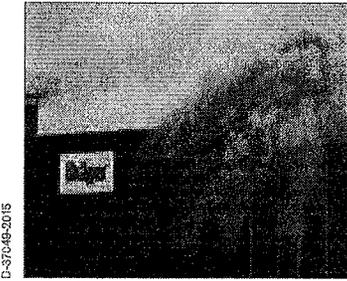
- Certified instructors
- Ignition sources
- Fire behavior
- Formation of fire gases
- Fire control
- Container operations
- Hydration
- Heat stress
- SCBA and safety equipment training
- Thermal imaging camera usage
- Heat stress management
- Smoke and ventilation exercises
- Nozzle techniques
- Container management
- Overall safety

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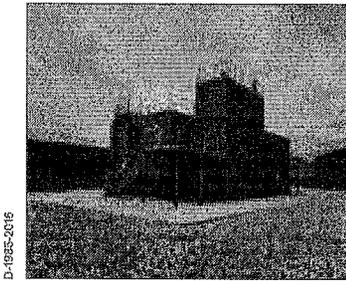
### Options available

- Forcible entry door
- Denver Drill prop
- Breaching wall prop
- Pitched roof
- Flat roof
- Rappel bar
- Bail out prop
- Moveable walls
- Roof reinforcement package
- Additional staircase
- Additional doors and windows
- Emergency ventilation
- Customized options to meet specific requirements

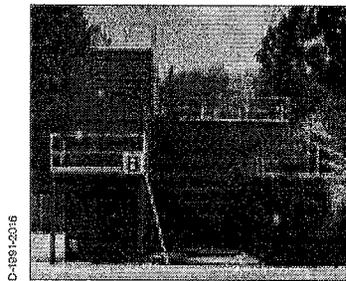
## Details



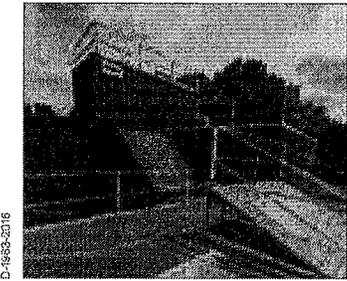
Real fire scenarios



Customized fire training solutions to meet your needs



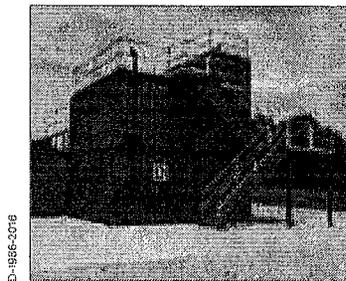
Phase 5 Modified with tower structure and additional burn chamber



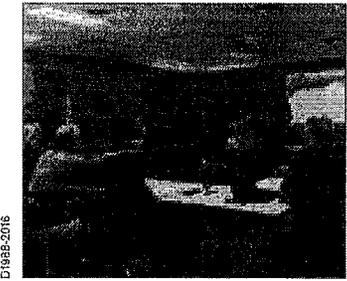
Pitched and flat roof props



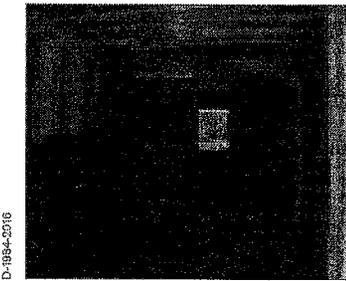
Optional rappel point



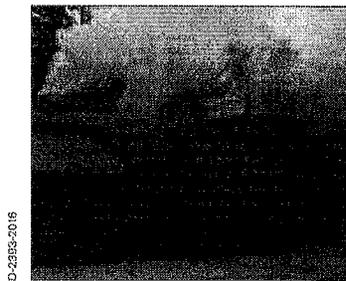
Phase 5 Modified with standpipe system



Instructors are experienced professional firefighters

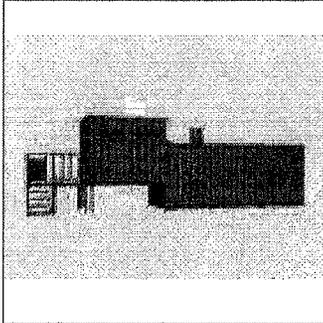


Denver Drill option



Phase 5 Modified with optional siding and roof

## Related Products

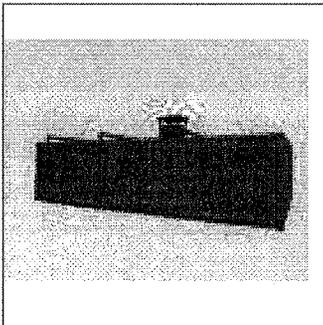


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### Phase 1: Flashover Development Observation

The Dräger Phase 1 system allows students to observe fire behavior three feet below the fire floor, providing firefighters hands-on training in a safe setting.

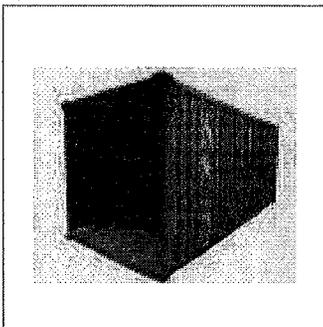


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### Phase 2: Interior Attack

The Dräger Phase 2 system builds on the principles learned in Phase 1. Trainees take a more active roll in recognizing the room's fire condition, advancing a hose line, applying nozzle patterns, and ventilating fire gases through hydraulic ventilation methods.

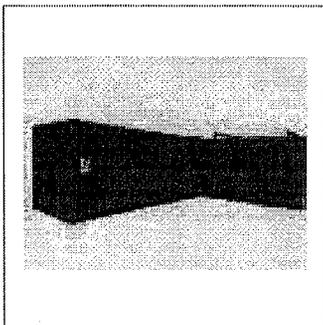


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### Phase 3: Backdraft Development

The Dräger Phase 3 system is a demonstration system only. Students observe fire behavior and smoke conditions prior to backdraft.

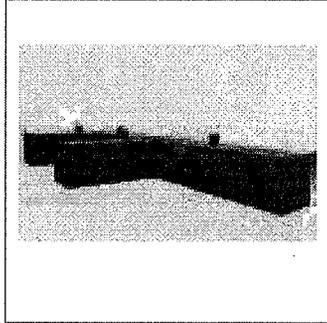


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### Phase 4: Garage

The Dräger Phase 4 system consists of two 40-foot containers that have been put together with the center wall removed, providing a more realistic room size fire floor. This system teaches basic tactics, rescue, suppression, and ventilation techniques.



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### Phase 6: Interior Hallway

The Dräger Swede Phase 6 simulates a hotel or apartment building fire and provides training for fire attack, smoke conditions, search and rescue, and hose handling through the main corridor.

## Technical Data

Class A grade containers
High performance insulation
16-gauge steel exterior
11-gauge sheet metal covering insulation
10-gauge steel flooring
5/16" chain on walls, ceiling, and doors of burn areas
Concrete paving to line floor of burn areas
Ventilation system
Doors and windows in the cold chambers
Interior and exterior stairs
2 crib fire drums
Paint: red oxide

## Notes

## Notes

## Notes

Not all products, features, or services are for sale in all countries.

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