

# Nozzle Unit 4-3

## Udor Blitz Nozzle Operations (No Fire)

### Lesson Goal

After completing this lesson, the student shall be able to summarize procedures and guidelines for Udor Blitz Nozzle operations and perform basic operations flowing water and foam, following the policies and procedures set forth by PyroLance North America LLC.

### Objectives

Upon successful completion of this lesson, the student shall be able to:

1. Conduct a Pre Use inspection of the nozzle.
2. Connect the nozzle to the hose and lock connector
3. Spray water and correct pattern selection of nozzle for extinguishment.
4. Spray foam and explain the optimum uses of foam with the Udor Blitz
5. Conduct basic Nozzle Trouble Shooting.

### Instructor Information

This lesson covers the Udor Blitz nozzle operations for both water and foam and will demonstrate the UHP fog stream and foam capabilities of the Udor Blitz nozzle. The purpose of this lesson is to provide the student with an understanding of what UHP capabilities consist of and guidelines for using UHP nozzles. While this lesson specifically covers Udor Blitz Nozzle operations, the instructor should always stress firefighter safety throughout the course. **You should emphasize that safety must be a priority for all firefighters in every situation they may encounter.**

Important instructor information is provided in shaded boxes throughout the lesson plan. Carefully review the instructor information before presenting the lesson. Use this lesson to initiate discussion on safety issues

in the fire service. Supplement this lesson with current case studies involving safety issues in the fire service.

### **Methodology**

This lesson uses demonstration in the field, discussion, and skills practice. The level of learning is application.

### **Estimated Total Time: 2 hours**

Field teaching/demonstration: 30 minutes  
 Skills Practice: 20 minutes/student

| <b>Time</b> | <b>Section/Activity</b>  |  |
|-------------|--|--|
| 10 min.     | Walk through the entire Udor Blitz Nozzle Unit   |  |
| 10 min.     | Demonstrate the use of the Udor Blitz Nozzle Nozzle: <ul style="list-style-type: none"> <li>• Inspection               <ul style="list-style-type: none"> <li>○ Check Hoses</li> <li>○ Show use of Emergency Override</li> <li>○ Show Emergency Stop</li> </ul> </li> <li>• Flow Water               <ul style="list-style-type: none"> <li>○ Show misting</li> <li>○ Show distance</li> </ul> </li> <li>• Flow Foam               <ul style="list-style-type: none"> <li>○ Show the difference when using UHP foam</li> </ul> </li> <li>• Explain First Aid Procedures involving injuries sustained by UHP equipment</li> </ul> |  |
| 20 min.     | Choose one student to perform correct operations of Udor Blitz Nozzle: <ul style="list-style-type: none"> <li>• Walk thru PPE Requirements</li> <li>• Demonstrate correct stance</li> <li>• Demonstrate Emergency Stop Procedures</li> </ul>   |  |

|         |                    |  |
|---------|--------------------|--|
| 20 min/ | Skills Practice    |  |
| 10 min  | Summary and Review |  |

### **Audiovisuals/Handouts**

- Udor Blitz Nozzle video

### **Evaluation**

- Skill Sheets 4-3

## **Section I: Introduction to Unit 1**

*10 min.*

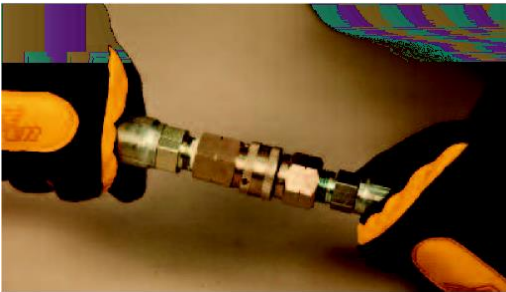
### **I. INTRODUCTION TO UNIT 1**

#### **A. Lesson Goal**

**Instructor Note:** Briefly review the lesson goal. Answer any questions about the goal. Emphasize that the purpose of the lesson is to familiarize the students with the correct techniques when using the Udor Blitz Nozzle Nozzle.

Unit 1 lesson goal — after completing this lesson, the student shall be able to correctly use the Udor Blitz Nozzle with both water and foam, following the policies and procedures set forth by the authority having jurisdiction (AHJ).

**Safety Note:** Ensure that the quick release safety is engaged.



1. Connect Udor Blitz Nozzle to hose and engage safety lock.
2. Pull trigger and spray water into the air, spray then release trigger.

**Instructor Note:** This is a great opportunity to demonstrate the UHP water stream and discuss the droplet size. Explain the significance of "Hang time" in terms of increasing the humidity to 30%.

3. Switch on the foam and demonstrate what the foam looks like when using foam with UHP.
4. Shut down unit and disconnect Udor Blitz Nozzle from hose.
5. Flush Unit and Nozzle.
6. Winterize Unit if Applicable.

**Section II: Skills Practice***20 min. each student***II. SKILLS PRACTICE**

**Instructor Note:** The purpose of this section is to have each student demonstrate the correct use of the Udor Blitz Nozzle with both water and foam.



1. Correct Pre-use inspection of Nozzle.
2. Ensure that the bail is in the forward position and shut off.
3. Explain muzzle discipline as they would use a hunting rifle.
4. Connect Udor Blitz Nozzle nozzle to hose and engage safety lock.
5. Pull trigger and spray water into the air, spray then release trigger.

**Instructor Note:** This is a great opportunity to demonstrate the UHP water stream and discuss the droplet size and how UHP works.

6. Switch on the foam and demonstrate what the foam looks like when using foam with UHP.

7. Shut down unit and disconnect Udor Blitz Nozzle nozzle from hose.
8. Flush Unit and Nozzle and ready for next use.
9. Winterize Unit if Applicable.

**Ask Students:** What are the benefits that they took out of the lesson?

Briefly discuss the answers with the students. Stress the safety to firefighters and the importance of using UHP and the limits (another tool in the tool box).

**Discussion Point:**

Discuss with the students how they see the use of UHP without and with foam, can be used on the fire ground.

Ask what the students see where they can see this technology will assist in their operations.

**NOTES**