



**SABRE**  
**O.C. Pepper Spray**  
**Student Program**

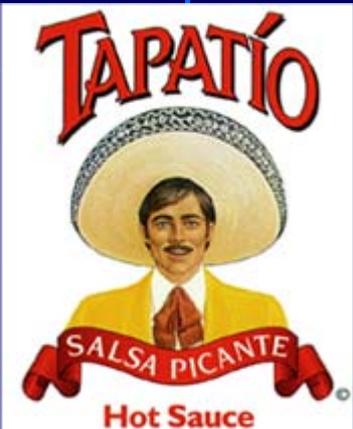
Presented by  
David Nance, VP Security Equipment Corp.

# O.C Student Course Objectives

At the end of this session the student will be able to demonstrate, outline and explain the:

- Effects produced by Oleoresin Capsicum – OC
- **Stream Delivery System, advantages and disadvantages of same (list your agencies spray pattern here)**
- Proper use of Oleoresin Capsicum
- Decontamination procedures
- Preventing Officer Contaminations!
- Warning signs which require Emergency Services
- Reporting Force

# What is OC?



- OC (oleoresin capsaicin) spray is an inflammatory agent derived from organic chemical compounds found in various forms of potent pepper plants



# Capsaicinoids

- Active ingredient in OC spray
- Heat bearing and pain producing components
- Higher = Stronger
- Most accurate measure of OC strength
- (List Your Agencies formulation here)



# SABRE COMPARISON CHART

<u>Product</u>	<u>OC</u>	<u>Capsaicinoid Content</u>
SABRE Red	10%	1.33%
SABRE 5.0	5%	0.67%
SABRE 5.5	5.5%	0.37%
SABRE Defense	10%	0.33%
SABRE Advanced (includes 1.5% CS)	2.5%	0.33%

# Inactive Ingredients



- **Propellant:** a liquid or gas which pressurizes the can
- **Carrier:** Inactive ingredients that create an even disbursement of OC throughout the formulation, H<sub>2</sub>O
- **Non-flammable** with Controlled Electric Devices i.e. Taser

# Canister

- MK 3 / 1.8 oz - Stream Delivery
- Flip Top Mechanism which
  - \* Helps prevent accidental discharge.
  - \* Makes it easier to point the discharge nozzle away from the user.
  - \* Makes it easier to fire under low light conditions
  - \* Use Thumb to deploy
  - \* **Position index finger below nozzle!!**

# O.C.

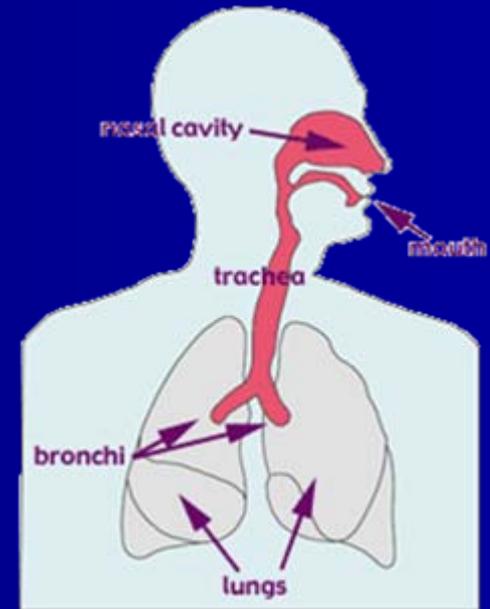
- Is a distance option *(3-20 feet)*
- Doesn't physically incapacitate:
  - *Drug-induced subjects*
  - *High Motivated and Goal-oriented persons*
  - *Mental Health subjects*
  - ***Take Away Vision – Get Tactical Advantage!***
- Be ready to reassess and transition to another option if necessary

# What does it affect?



## 3 MAIN AREAS

- *Eyes*
- *Respiratory System*
- *Skin*



# Eyes



- Painful burning sensation
- Involuntary eye closure
- Profound tearing
- Visual impairment
- Protracted redness
- **Eye Closure = Best Tactical Advantage!**

# Respiratory System



- Inflammation of mucous membranes, i.e. lips, nose, tongue
- Pronounced mucous secretion
- Coughing, shortness of breath
- Tightening of chest

# Skin



- Intense burning sensation
- Possible inflammation
- Reddening of skin surface

# Psychological Effects

- Fear
- Anxiety
- Possible panic
- Hyperventilation

# What an Exposure Looks Like?



# 3 Levels of Contamination

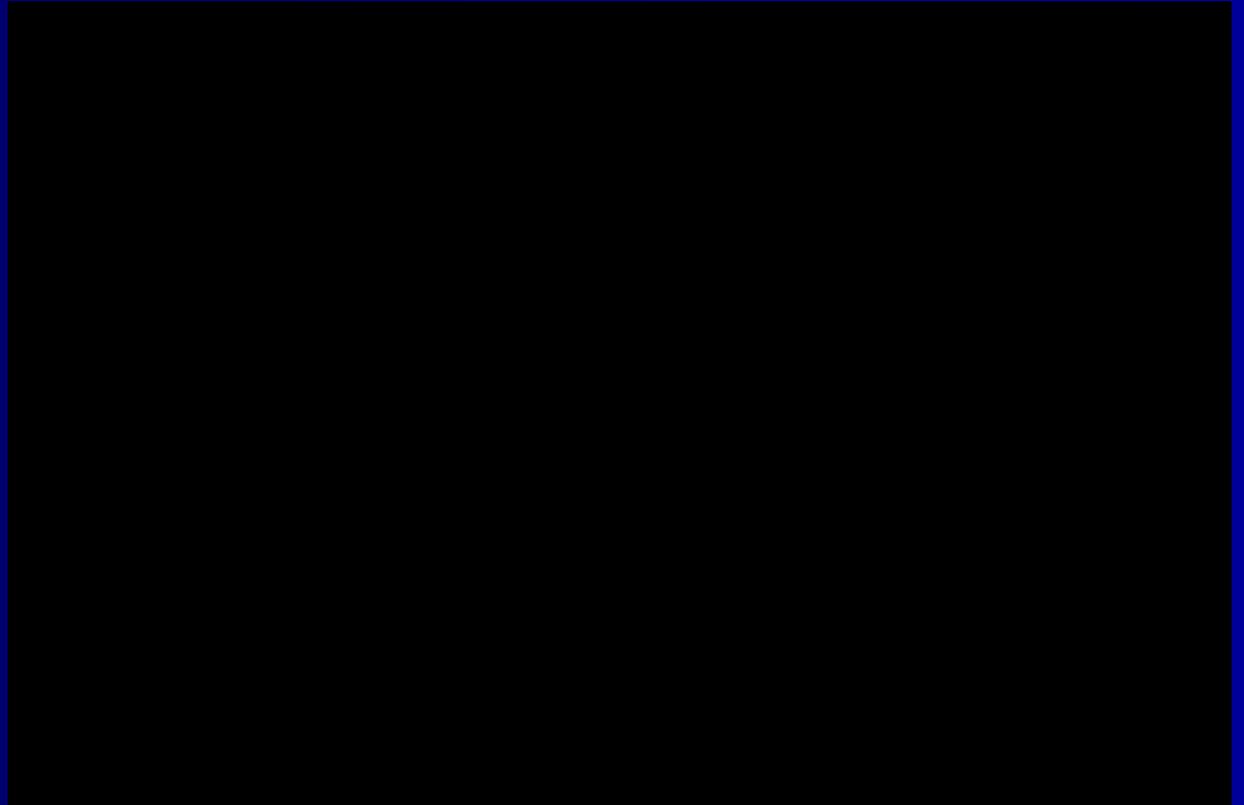
- **Level 1** – Direct Contamination – sprayed into the eyes and face.
- **Level 2** - Indirect or Secondary Contamination, contact with a person who has been exposed to Level 1
- **Level 3 Environmental** – In the atmosphere

# 3 Delivery Systems

- Stream - Liquid
- Fog / Cone - Gaseous
- Foam / Gel – Hybrid (Liquid/Solid)

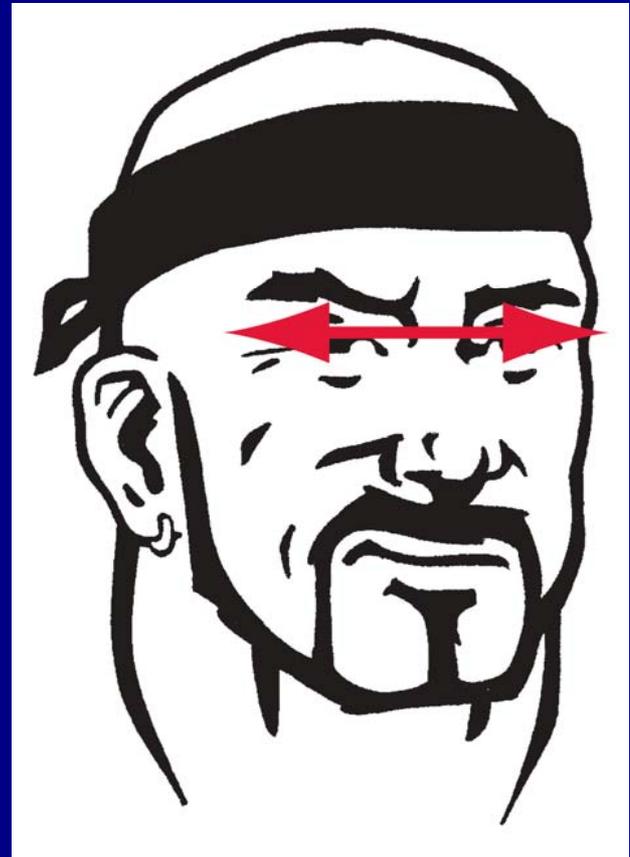
# Spray Patterns

- Stream
- Cone
- Foam



# Stream Delivery

- **Spray from ear to ear across the eyes.**  
**(VERY IMPORTANT!)**
- At five feet, the stream delivery has a diameter of six (6) inches.
- If subject wears glasses, spray just above the glasses.













# Stream Delivery

## Advantages

- Reduces cross contamination.
- Reduces wind blowback.
- Range of up to **15 to 20 feet**.
- Good visualization process of the acquisition area.

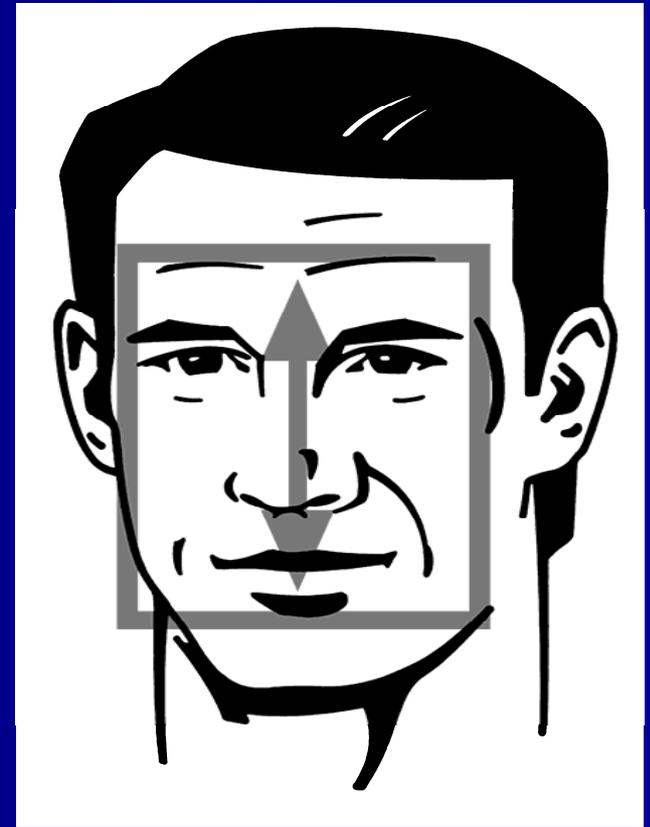
# Stream Delivery

## Disadvantages

- Limited effect on the respiratory system.
- Contact with eyes is imperative for an immediate affect.

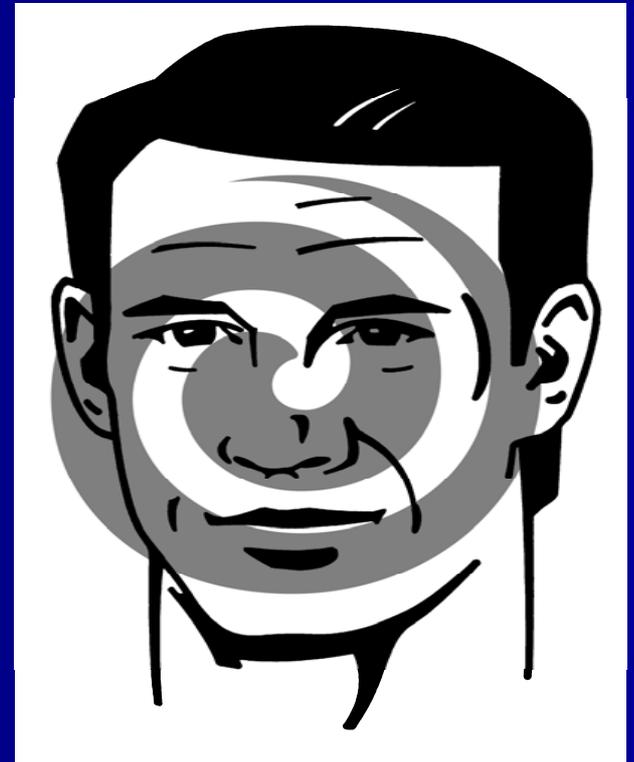
# Cone Delivery

- Spray up & down – center of the face.
- At five feet, the cone delivery has a diameter of twelve (12) inches.
- Restriction of deep lung breathing
- Cross contamination & wind blow back concerns



# Foam Delivery

- **Aim eyes, center of face and spray in circular motion**
- At five feet, the foam delivery has a diameter of eight (8) inches.
- If subject wears glasses, spray just above the glasses.
- Caution – may try to wipe on you
- Max range about 8 feet



# Gel Delivery

- **Spray from ear to ear across the eyes.**  
**(VERY IMPORTANT!)**
- At five feet, the gel delivery has a diameter of six (6) inches.
- If subject wears glasses, spray just above the glasses.
- Crossfire Technology!
- Deploys further than Foam – 20 foot range



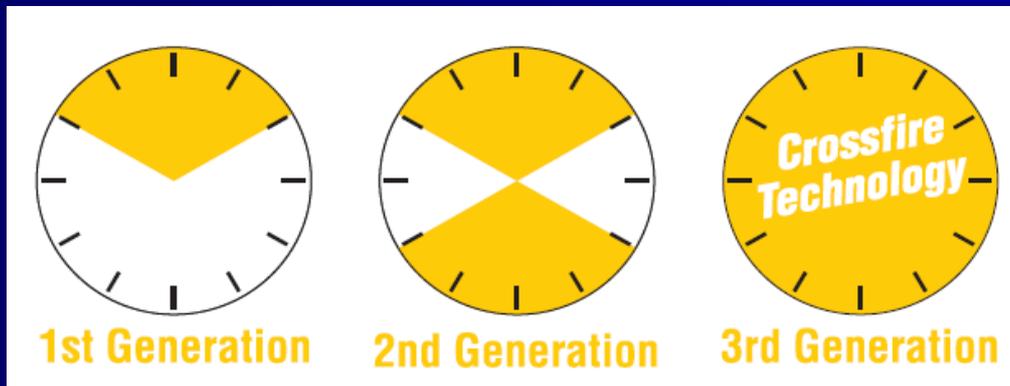
# Have I targeted the required area?

- Natural OC pigment  
Yellowish to Red-Orange
- Identifies area of contamination
- **Don't touch this area!**
- Additional deployments may be necessary
- Ultraviolet marking dye is included and may last on skin and clothing for up to 48 hrs



# Special Considerations for Deployment of O.C.

1. Persons in an elevated location.
2. Persons in charge of a vehicle while it is running.
3. Females that are known to be or are obviously pregnant.
4. People that are elderly or infirm
5. Crowded Areas

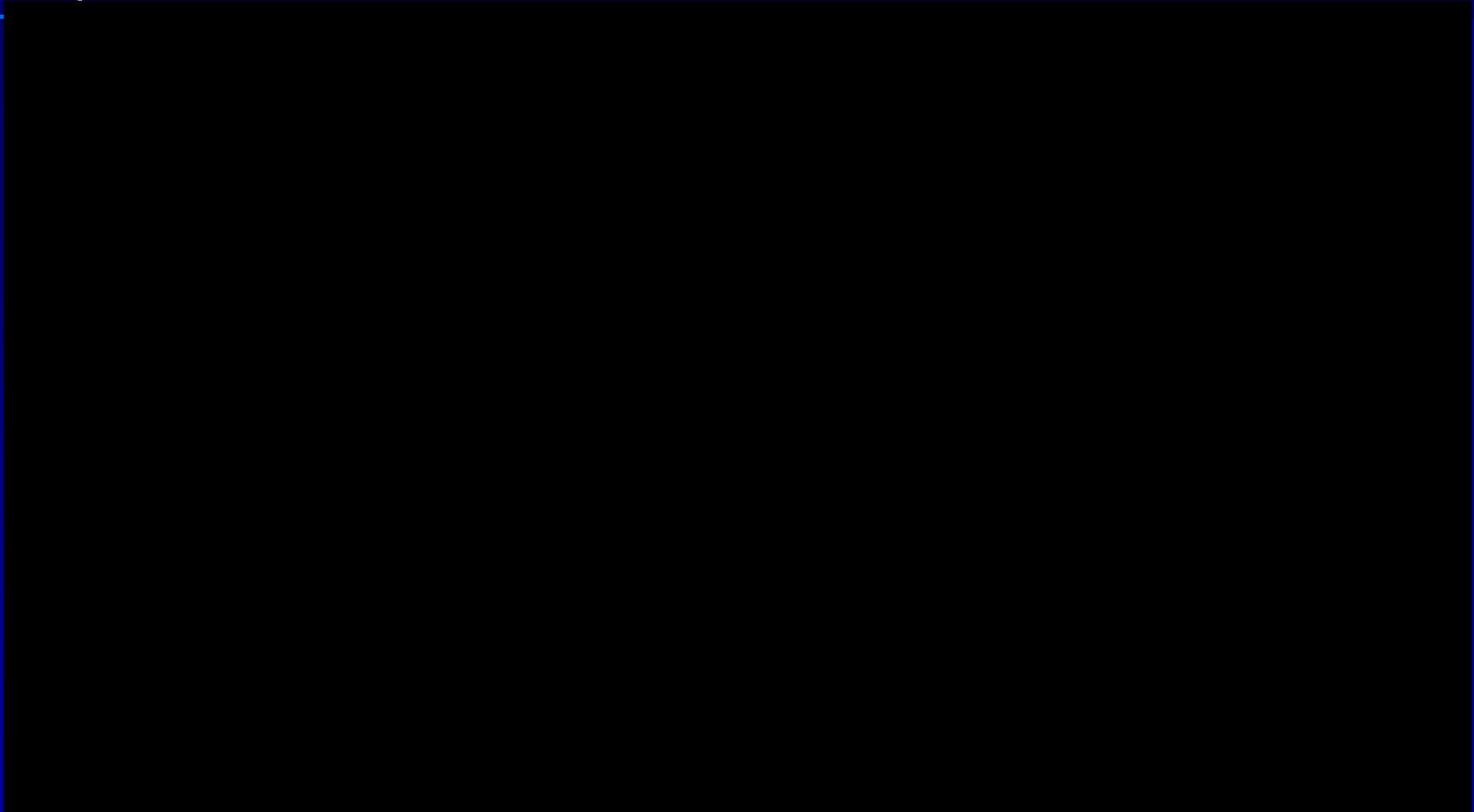


# Crossfire Technology

- Superior to 1st and 2nd generation Aerosol Irritant Projectors. CROSSFIRE provides 3G!

***CROSSFIRE maximizes Target Acquisition***  
*by providing officers with the ability to deploy their OC continuously (if necessary) from any position, angle or orientation!*

# Crossfire Technology



# Environmental Considerations

- Terrain (footing, effectiveness of force options)
- Weather (footing, visibility, effectiveness of force options)
- Lighting (visibility, effectiveness of force options)
- other hazards
- Friendly/hostile territory
- Availability of physical cover proximity of back-up
- Tactical withdrawal/disengagement possibility

# Surviving Incidents Involving USE of FORCE

## ■ Watch the Eyes:

1. Avoidance
2. Scanning
3. Target Glance
4. 1000- Yard Stare
5. Contact with associates

## ■ Facial Cues:

1. Sweating
2. Tight Jaw Muscles
3. Hands to face

## ■ Body Language Cues:

1. Lack of movement
2. Flanking moves
3. Adjust clothing repeatedly
4. Clinched fist
5. Hands

## ■ Clothing Cues:

1. Clothing inconsistent with weather
2. Unnatural bulges
3. Jacket / clothing is removed when you are seen
4. Repeated adjustment of clothing

# Why Do We Use Intermediate Weapons?

- The purpose of an OC spray deployment is to create a *window of opportunity* to:
  - *Take follow up control*
  - *Tactically reposition and assess* which is a continuous process before during and after.
  - To achieve **Safe Separation**

# Tactical Considerations

- Conceal OC from the subject before use, element of surprise is key.
- Be aware of environmental factors (wind, rain, cross-contamination)
- Use thumb on actuator, not a finger.

# Tactical Considerations

- After deploying a 1 second burst, move off the line of attack (45 degree) if possible, redirect to the canister side
- Do not deploy at distances less than 3 feet - Hydraulic Needle Effect, splash back & weapon retention
- Combat tuck retention position, do not offer the canister to the subject.

# O.C. and Animals

- O.C. is effective on dogs but will not stop a dog charging at you.

# Storage

- Store at normal room temperature, 70 F
- Do not store below 32 F
- Do not expose to temperatures over 120 F
- Store in cool dry place
- 5 Year shelf life – expiration date printed on canister label
- Replacement after each usage.

# Maintenance

- Clear debris and check nozzle at regular intervals
- ¼ second deployment to check functionality every 6 months. Spray into a drain or towards the ground while outside.

# Tactical Considerations

- Use loud repetitive verbal commands!  
"Police, Get Back, Get Back, Get on the Ground, Do it now"!!
- **Combat Tuck** if required!  
i.e. Retention position

# Post Application Procedures

## ■ *Control subject*

– Wait for product to take affect!

- Clenched fists
- Grimace – Painful Sounds
- Hands out to side for balance
- Hands on Knees
- Eyes Close

– Let product dissipate into atmosphere 1<sup>st</sup>!

■ *Remove subject from contaminated area as soon as is practical*

# Post Application Procedures

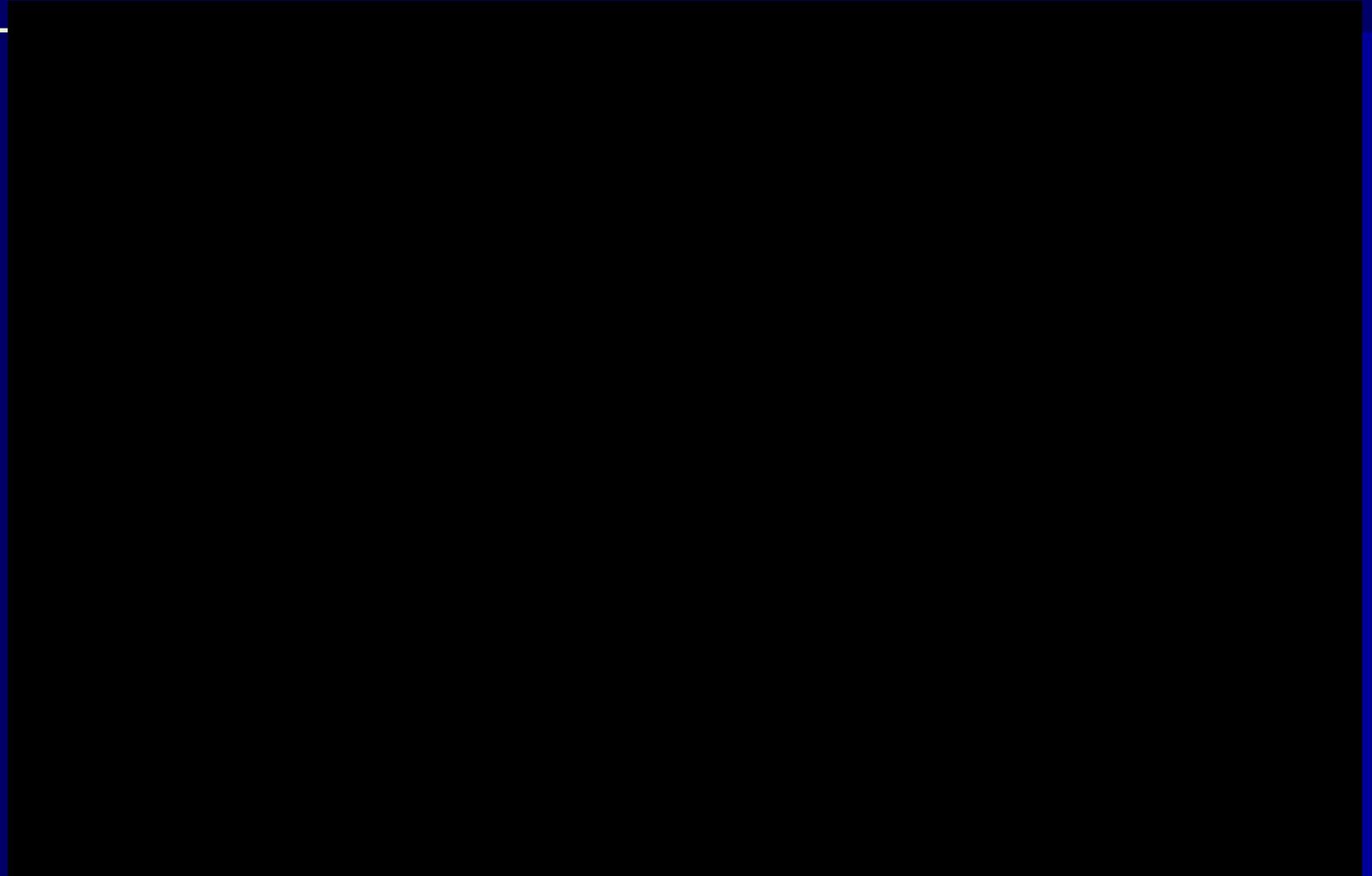
- *Determine if serious medical condition requiring emergency services exist:*
  - *heart problems*
  - *severe respiratory problems*
  - *Diabetes, Epilepsy*
  - *high blood pressure*
  - *under the influence of alcohol or drugs*
  - *if subject requests medical attention*
  - *loses consciousness*
  - *shallow breathing combined with sweating*

# Post Application Procedures

## Decon process

- *Reassure subject*
- *Decontaminate (wet and dry paper towels if applicable, copious amounts of cool water into open eyes, eye strobing)*
- *If significant relief is not achieved after 45 minutes contact emergency services*
- *Monitor for at least 2 hours*
- *Document (Arrest forms, Notebook, RCC)*
- *Contaminated Officers to use SABRE DECON*

# **PREVENTING OFFICER CONTAMINATIONS**



# What If You Get Contaminated

- Create safe separation
- Slow rhythmic breathing
- Stay Calm, (Positive mindset)
- Use of the Tactical C
- Ensure back up is on the way
- Notify supervisor
- Decontaminate as soon as possible

# Reporting Use of Force

- Recommended Topics to Include in your report:
  - How many members at the scene
  - Verbal dialogue before during and after
  - Subjects response (or lack of) to commands
  - Why encounter began and why it couldn't be avoided
  - Techniques used

# Reporting Use of Force

- Recommended Topics to Include in your report:
  - How long resistance lasted
  - De-escalation techniques used after subject submitted
  - Documentation of Decon process
  - Details of transportation
  - *Note Keep in mind that video cameras are everywhere. Be sure your reports are as complete and accurate as possible. You may not always know you are being recorded, you should treat every situation as though it were being recorded.*

# Decontaminations Don't's

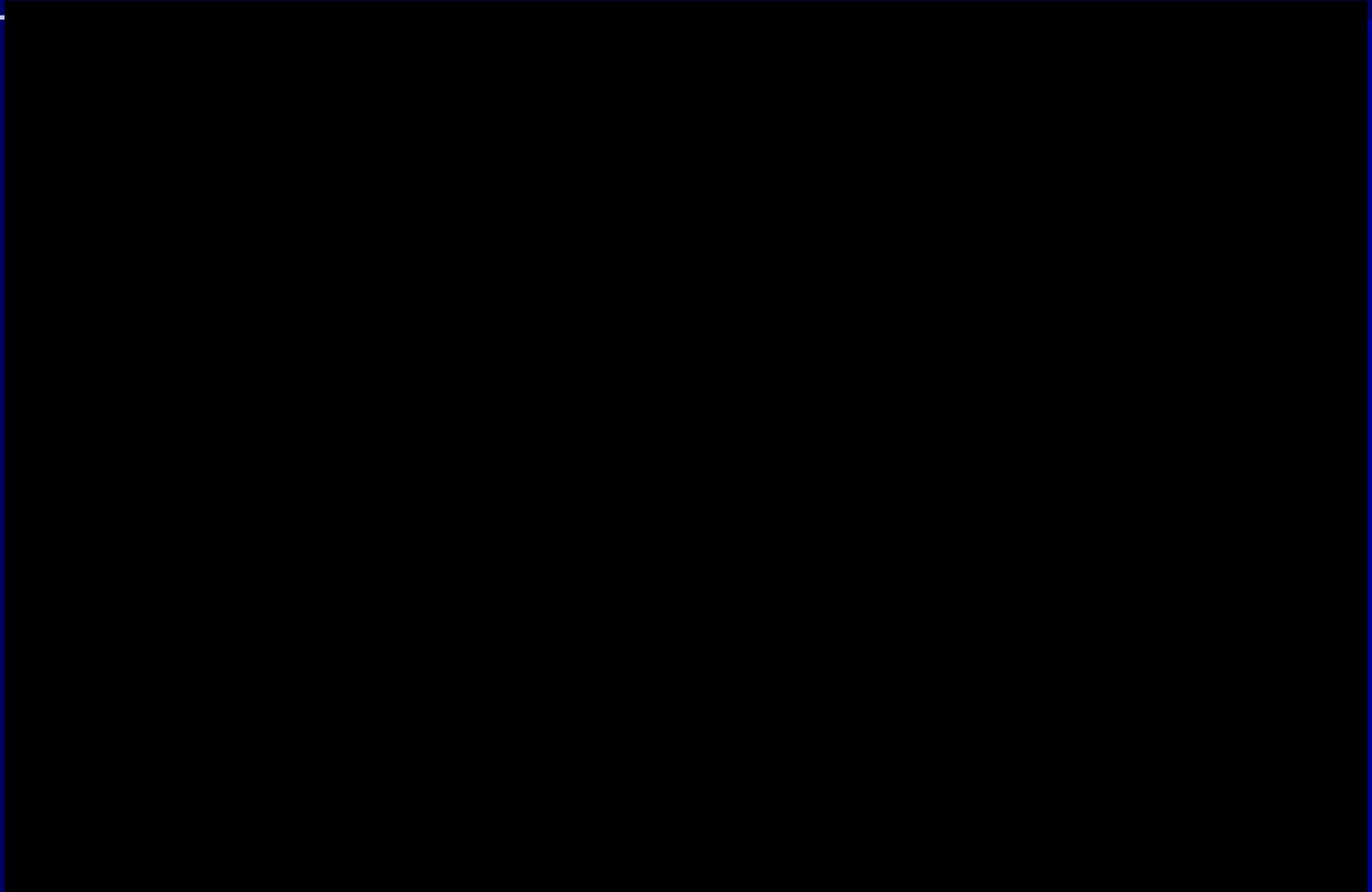
- Do not rub eyes
- Do not remove subjects' contacts
- Do not use commercial eyewash, skin creams, or salves
- When using fan or air con to cool face do not open eyes!

# Transportation Issues

- While transporting the exposed subject, the officer should:
  - Allow the subject to sit in an upright position
  - Continually monitor the subject's medical condition
  - Check to make sure the subject is breathing normally

# PHANTOM

## HITS HARD - Decons Easy!



# **NEW CROWD MANAGEMENT TOOL**

# Questions???



SABRE Oleoresin Capsicum (OC) Spray  
Student Training Program