

EUSTIS GUN CLUB

LASER TRAINING SAFETY PACKET

Eustis Gun Club Firearms Training Program

Document Type	Safety Signage + Instructor SOP
Applies To	Mantis TitanX / BlackbeardX and other approved laser-training devices
Primary Laser Classification	Class 3R (verify each device label before use)
Recommended Posting	Training hall entrances, designated laser-training area, instructor binder
Revision	Initial Issue - September 2026

Purpose: Establish clear, consistent safety communication and operating controls for EGC laser-training activities. This packet is designed so the signage pages can be printed and laminated while the procedural pages remain in the Training Program binder.

IMPORTANT: Verify the manufacturer label, wavelength, laser classification, operating instructions, and condition of every laser device before placing it into service. Do not assume all Mantis or third-party devices have the same laser classification.

PRINTING NOTE

Pages 2-4 are full-page signs intended for printing and lamination.

WARNING

LASER TRAINING IN PROGRESS

CLASS 3R LASER EQUIPMENT MAY BE IN USE

LASER RADIATION - AVOID DIRECT EYE EXPOSURE

AUTHORIZED PARTICIPANTS ONLY

**DO NOT ENTER DURING ACTIVE TRAINING WITHOUT INSTRUCTOR
PERMISSION**

FOLLOW ALL INSTRUCTOR COMMANDS

Eustis Gun Club Firearms Training Program

LASER TRAINING SAFETY RULES

CLASS 3R LASER EQUIPMENT IN USE

LASER RADIATION - AVOID DIRECT EYE EXPOSURE

- 1. Never look directly into the laser aperture or beam.**
- 2. Never intentionally aim a laser toward another person's eyes or face.**
3. Activate laser devices only when directed by the instructor.
4. Direct lasers only toward approved targets, screens, or training surfaces.
5. Avoid mirrors, polished metal, glass, or other highly reflective surfaces.
6. Do not modify, adjust, disassemble, or substitute laser equipment.
7. Only EGC-approved laser equipment may be used in the training area.
- 8. Immediately report damaged equipment, unintended activation, or suspected eye exposure.**
9. All firearm-safety rules and instructor commands remain in effect during laser training.

**FAILURE TO FOLLOW SAFETY PROCEDURES MAY RESULT IN IMMEDIATE REMOVAL
FROM THE TRAINING AREA.**

DESIGNATED LASER / DRY-FIRE TRAINING AREA

CONTROLLED TRAINING AREA

NO LIVE AMMUNITION

BEYOND THIS POINT DURING LASER / DRY-FIRE TRAINING

- All firearms entering the designated dry-fire training area must be cleared and verified in accordance with the EGC Training SOP.
- Live ammunition must be removed from participants, firearms, magazines, bags, and the immediate training area before dry-fire exercises begin.
- Only approved inert training devices, laser cartridges, training pistols, and instructor-authorized equipment may be used.
- If live ammunition is discovered, **STOP TRAINING** and notify the instructor immediately.

EGC INSTRUCTOR CONTROLLED

EUSTIS GUN CLUB FIREARMS TRAINING PROGRAM

LASER TRAINING - INSTRUCTOR OPENING CHECKLIST

Complete before participants begin any laser or dry-fire exercise. Initial or check each item.

- ☐ Training area designated and access controlled.
- ☐ Door warning signage posted and visible.
- ☐ Classroom/training surfaces checked for mirrors, exposed glass, polished metal, or other unintended reflective hazards.
- ☐ All laser equipment inspected for damage and correct operation.
- ☐ Manufacturer label/classification verified for each device being used.
- ☐ Laser class, wavelength, and device model match the Equipment Register.
- ☐ Participants briefed: never look into beam/aperture and never aim at eyes/face.
- ☐ Dry-fire area established before firearm-based laser training begins.
- ☐ All firearms cleared in accordance with the EGC firearm clearing procedure.
- ☐ Live ammunition removed from the designated dry-fire training area.
- ☐ Instructor confirms only approved inert/laser equipment is present.
- ☐ Parent/guardian present for any minor participant as required by EGC policy.
- ☐ Emergency communication method available and instructor knows incident-reporting procedure.

Instructor: _____ Date: _____ Class: _____

Notes / equipment removed from service:

EUSTIS GUN CLUB FIREARMS TRAINING PROGRAM

LASER TRAINING EQUIPMENT REGISTER

Record every laser-emitting training device before use. Verify information from the manufacturer label/manual. If the classification cannot be verified, do not place the device into service until confirmed.

Equipment / Model	Serial / ID	Laser Class	Wavelength	Pulse / Output	Label Verified	Inspection Date	Status / Notes
Mantis TitanX		Class 3R	650 nm	60 ms			Red laser; verify physical label
Mantis BlackbeardX - Red		Class 3R	650 nm	60 ms			Verify physical label
Mantis BlackbeardX - Green		Class 3R	520 nm	60 ms			Verify physical label
Mantis BlackbeardX - IR		Class 3R	780 nm	60 ms			Invisible IR; verify controls/label

NOTE: Mantis currently lists TitanX and BlackbeardX variants above as Class 3R. Physical labels and current manufacturer instructions control. Any other laser cartridge or training device must be separately verified before use.

EUSTIS GUN CLUB FIREARMS TRAINING PROGRAM
STANDARD OPERATING PROCEDURE

Laser Training and Dry-Fire Training Area

SOP No.	TRAIN-LASER-001	Effective Date	_____
Revision	Initial	Approved By	_____
Program Administrator	Facility Administrator	Director of Training	_____
Review Cycle	Annual / upon equipment change	Supersedes	New SOP

1. Purpose

To establish minimum safety controls for laser-training and dry-fire activities conducted under the Eustis Gun Club Firearms Training Program, including control of Class 3R laser devices, firearm condition, live ammunition, participant access, minors, equipment inspection, and incident response.

2. Scope

This SOP applies to EGC instructors, staff, volunteers, members, students, guests, and minors participating in or supporting authorized laser-training activities in the designated training area.

3. General Safety Principle

Laser-training equipment does not eliminate normal firearm-safety obligations. All firearm-safety rules remain in effect. Laser devices shall be used only for their intended training purpose and only under the direction of an authorized EGC instructor.

4. Laser Classification and Equipment Verification

The instructor shall verify the manufacturer identification label, laser classification, wavelength, and operating instructions before a laser-emitting device is placed into service. The current EGC equipment register identifies Mantis TitanX and Mantis BlackbeardX laser variants as Class 3R based on manufacturer-published technical information. Physical product labeling and current manufacturer instructions control. Devices with missing, unreadable, conflicting, or unverified classification information shall be removed from service until verified.

5. Class 3R Laser Controls

- Never intentionally view the laser beam or aperture at close range.
- Never intentionally direct the laser toward another person's eyes or face.
- Laser activation shall occur only during an authorized exercise and toward the designated target/screen.
- Potentially reflective surfaces in or near the beam path shall be removed, covered, repositioned, or otherwise controlled before training.
- Participants shall not modify, disassemble, realign, or substitute laser components.
- Damaged or malfunctioning laser equipment shall be tagged or clearly identified and removed from service.
- Infrared laser devices require special care because the beam may not be visible to participants; the instructor shall verify the exact device and controls before use.

6. Training Area Setup and Access Control

- Post the LASER TRAINING IN PROGRESS warning sign at each active training-area entrance.
- Limit entry to participants, instructors, authorized observers, and staff.
- Establish the direction of training so laser beams terminate on approved targets/screens and are not directed toward doors, windows, occupied work areas, or uncontrolled spaces.
- Conduct an opening inspection for reflective hazards, damaged equipment, and unauthorized items before training begins.
- Keep the training area adequately lit unless a specific instructor-approved exercise requires otherwise.

7. Dry-Fire / Firearm Condition and Ammunition Control

When a firearm or firearm receiver is used as part of laser training, the instructor shall establish a controlled dry-fire area before the exercise begins.

- Live ammunition is prohibited within the designated laser/dry-fire training area during dry-fire exercises.
- Participants shall remove live ammunition from firearms, magazines, pockets, bags, carriers, and other equipment entering the controlled dry-fire area.
- Firearms shall be cleared and verified using the EGC-approved clearing procedure before entering the exercise.
- Only approved inert training devices, laser cartridges, laser-equipped training pistols, or instructor-authorized equipment may be used.
- If live ammunition is discovered, the instructor shall immediately stop the exercise, secure the training line, remove the ammunition from the controlled area, and re-verify all firearms/equipment before resuming.

8. Participant Safety Briefing

- Identify the training area boundaries and restricted-entry points.
- Explain that Class 3R laser equipment may be in use and that direct eye exposure must be avoided.
- Review the prohibition on aiming at another person's eyes or face.
- Review firearm condition and ammunition restrictions for the exercise.
- Explain the STOP command and require all participants to immediately cease activity when commanded.
- Remind participants to report equipment damage, unintended activation, or suspected eye exposure immediately.

9. Minors

Minor participation shall comply with current EGC Training Program policy. A parent or guardian must be present as required by EGC policy, and the instructor may impose a higher minimum age or additional restrictions based on the class, equipment, and participant maturity. Minors shall receive the same laser and dry-fire safety briefing as adult participants.

10. Suspected Eye Exposure / Safety Incident

- Immediately stop laser operation and secure the training area.
- Do not attempt to recreate the exposure or test the device by looking into the beam.
- Identify the device involved and remove it from service pending review.
- Document the participant, instructor, device, approximate circumstances, and any reported symptoms in an EGC incident report.
- If a participant reports eye pain, persistent visual disturbance, vision loss, or other concerning symptoms, advise prompt medical evaluation and follow EGC emergency procedures.
- Notify the Program Administrator and appropriate EGC leadership in accordance with incident-reporting requirements.

11. Equipment Damage / Malfunction

- Stop use of any device with a damaged housing, aperture, battery compartment, alignment issue, intermittent activation, or unreadable safety label.
- Mark the device OUT OF SERVICE and separate it from available training equipment.
- Return equipment to service only after repair/replacement and verification of classification/labeling and proper operation.

12. Closing Procedure

- Power down and secure all laser devices.
- Account for training firearms, laser cartridges, magazines, inert devices, and accessories.
- Remove temporary warning signage when the controlled laser-training condition has ended.
- Restore the hall/training area to normal configuration.
- Record equipment concerns, incidents, or items removed from service before leaving.

13. Records and Review

The Program Administrator shall maintain the current Equipment Register, this SOP, revisions, incident reports, and relevant manufacturer instructions. Review this SOP at least annually and whenever EGC adds a new laser class, device type, training method, or materially different room configuration.

14. Instructor Acknowledgment

I acknowledge that I have reviewed this SOP and understand the requirements for laser safety, dry-fire control, ammunition exclusion, participant briefing, and incident reporting.

Instructor Name: _____ Signature: _____ Date: _____

Instructor Name: _____ Signature: _____ Date: _____

Instructor Name: _____ Signature: _____ Date: _____

REFERENCE INFORMATION

The following source information was used to prepare the initial packet. Manufacturer labeling and current instructions should be rechecked whenever equipment is added or replaced.

Mantis TitanX Smart Laser Training Pistol

Manufacturer technical details list a 650 nm, 60 ms, Class 3R red laser.

<https://mantisx.com/products/titanx-smart-laser-training-pistol>

Mantis BlackbeardX

Manufacturer technical details list red 650 nm, green 520 nm, and IR 780 nm variants as 60 ms, Class 3R.

<https://mantisx.com/collections/all-items/products/blackbeardx-the-auto-resetting-trigger-system-with-analytics-and-smart-feedback>

U.S. Food & Drug Administration - Laser Products and Instruments

FDA describes IEC Class 3R / FDA Class IIIa as potentially hazardous when directly viewed depending on power and beam area and notes that controls and risk communication increase with laser class.

<https://www.fda.gov/radiation-emitting-products/home-business-and-entertainment-products/laser-products-and-instruments>

U.S. Food & Drug Administration - Frequently Asked Questions About Lasers

FDA advises never looking directly into a laser beam and discusses class labeling and laser safety.

<https://www.fda.gov/radiation-emitting-products/laser-products-and-instruments/frequently-asked-questions-about-lasers>

Administrative note: This packet is an operational safety document, not a substitute for manufacturer instructions, applicable law, or qualified laser-safety consultation where a higher-hazard laser class or specialized equipment is introduced.