

Dynamic Photomechanics Laboratory

MECHANICAL, INDUSTRIAL, AND SYSTEMS ENGINEERING
UNIVERSITY OF RHODE ISLAND

Detonator Safety Precautions and Procedures

To ensure the safe use of detonators, the following precautions and procedures must be followed and enforced by all the member of the Dynamic Photomechanics Laboratory:

1. Detonators must be used on the same day that they are removed from the safe or placed back into the safe for future use. Immediately contact Prof. Matos (Cell: 508-567-8170, Office: 401-874-4556) or Prof. Shukla (Cell: 401-439-3766, Office: 401-874-2283) to safeguard and store detonators in the safe.
 - a. Detonators that fail to ignite during an experiment must also be placed back into the safe on the same day.
2. If outside the safe, detonators cannot be left unattended at any point for any duration.
3. Detonators should never be placed near any high-voltage sources or open flames.
4. When prepping the charges for future use, the work surface must be clean and free of any obstruction.
5. Appropriate PPE and clothes should be worn while working with and handling detonators. These include, but are not limited to:
 - a. Face shields
 - b. Earmuffs
 - c. Rubber sole shoes.
 - d. Appropriate workwear (no loose clothing, shorts, or open-toe shoes)
6. *Detonators should only be connected to the trigger box just before use.*
7. Detonators must only be handled by a U.S. Person who is a full-time member of the Dynamic Photomechanics Laboratory.
8. The person using the detonator must appropriately record the date, amount, and type of detonator used in their records. They should also email the information to Professor Shukla on the day of use.