



INDOOR RANGE MAINTENANCE

Abstract: This document serves as a comprehensive guide and set of instructions for the maintenance and cleaning of indoor and container ranges, tailored specifically for our valued customers. By adhering to these guidelines, we aim to enhance the safety of your officers and users, ultimately creating a secure environment for all future operations. These prescribed procedures not only protect the integrity of your range but also prioritize the well-being of those who rely on it.



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SHOOTING RANGE MAINTENANCE

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ARMORED RANGE INC (ARI) is pleased to have provided you with this guide/document for a comprehensive solution for maintaining your indoor ranges. We take pride in contributing to the safety of your officers and users, ensuring a secure environment for future operations. This investment safeguards both your range and those who utilize it.

Below, you will find detailed procedures for indoors and container range lead cleaning, a critical aspect of range maintenance:

1. **Safety Precautions:**
 - Prioritize the use of Personal Protective Equipment (PPE), including gloves, eye protection, and respiratory gear when necessary.
 - Establish proper ventilation to minimize exposure to lead dust and fumes.
2. **Containment and Isolation:**
 - Set up containment measures to prevent lead dust and particles from spreading.
 - Seal off any openings to avoid contamination of adjacent areas.
3. **Dust Suppression:**
 - Employ wet cleaning methods and suitable solutions to suppress lead dust, avoiding dry sweeping or vacuuming.
4. **Lead Removal:**
 - Utilize specialized tools to physically remove lead residues, ensuring collected materials do not become airborne.
5. **Waste Handling:**
 - Securely collect lead-contaminated materials in sealed, labeled containers for proper disposal, adhering to local regulations.
6. **Decontamination:**
 - Thoroughly clean and decontaminate all tools, equipment, and PPE to prevent cross-contamination.
7. **Surface Testing:**
 - Use lead testing kits or devices to verify surfaces are below permissible lead levels after cleaning.
8. **Final Inspection:**
 - Conduct a visual inspection to confirm the removal of all lead residues.
9. **Record Keeping:**
 - Maintain detailed records of the cleaning process, including dates, materials used, testing results, and disposal methods.
10. **Environmental Monitoring:**



- If required, conduct air and surface monitoring to verify lead contamination levels comply with acceptable limits.

11. **Reporting and Documentation:**

- Prepare a detailed report summarizing the cleaning process, results of testing, and disposal records, as required for regulatory compliance.

12. **Post-Cleaning Assessment:**

- Arrange for a third-party assessment or inspection if needed to ensure the area meets regulatory requirements for lead contamination.

In addition to these procedures, we recommend the following maintenance schedule:

WEEKLY

- Vacuuming floor to ceiling (Except Bullet Trap);
- Checking all target holders;
- Checking all target carriers;
- Vacuum top of target track and check for brass;
- Tighten all nuts and bolts;
- Walk bullet trap to level;
- Remove debris from bullet trap such as shotgun wads, paper etc.;
- Check and fill hopper as needed;
- Rake bullet trap and keep rubber behind red line;
- Clean stall glass and stall area;
- Clean booth glass;
- Maintain clients HEPA vacuum (To include changing of filters and bags contractor supplies bags and filters);
- Change out all burnt-out light bulbs;
- Contractor agrees to provide coveralls and respirators (must be OSHA Approved);
- Contractor agrees to notify Range Master if they are not going to be there or late for maintenance;
- Advise range master of any problems; and
- Empty all trash.

MONTHLY

- Vacuum out rear of range behind bullet trap;
- Clean fan shroud in weapons cleaning area; and
- Vacuum hallway just outside of range and weapons cleaning area.

QUARTERLY



- Change out air filters or as needed;
- Box up air filters in original boxes and label and put in hallway for pick up;
- Each box will be sealed with tape; and
- Profile, containerize, manifest, transport and dispose of all hazardous waste.

RECOMMENDED STEEL AND GRANULATED RUBBER TRAP CLEANING AND MINING CYCLES:

BULLET TRAPS CLEANING AND MINING CYCLES

STEEL TRAP CLEANING:

- Steel traps are a crucial component of any shooting range and require regular maintenance to ensure optimal performance and safety. We recommend a thorough cleaning and inspection at least every six months or as per manufacturer guidelines.

Steps for Steel Trap Cleaning:

1. **Initial Assessment:**
 - Begin by conducting a visual inspection of the steel trap. Look for any signs of wear, corrosion, or damage that may affect its functionality.
2. **Disassembly:**
 - Carefully disassemble the steel trap, taking note of the arrangement of components for proper reassembly.
3. **Debris Removal:**
 - Use specialized tools to remove lead fragments, spent bullets, and other debris from the trap's surfaces. Ensure all collected materials are properly disposed of in accordance with local regulations.
4. **Surface Inspection:**
 - Thoroughly inspect the interior surfaces of the steel trap for any signs of damage, such as pitting, cracking, or warping. Address any identified issues promptly.
5. **Cleaning and Degreasing:**
 - Clean all components using a non-abrasive, lead-specific cleaning agent. Pay special attention to areas prone to lead buildup.
6. **Rust and Corrosion Treatment:**
 - Address any signs of rust or corrosion on the steel trap components. Remove rust using appropriate methods and apply a protective coating to prevent further corrosion.
7. **Reassembly:**
 - Reassemble the steel trap components according to the manufacturer's specifications. Ensure all nuts, bolts, and fasteners are securely tightened.
8. **Functionality Test:**
 - Conduct a functionality test to ensure the trap operates smoothly and effectively. Verify that target carriers move freely and that the trap effectively captures bullets.

GRANULATED RUBBER TRAP MINING:



Cleaning and mining a rubber berm trap is an inconvenient, messy hassle. Let us do the dirty work. Armored Range offers the most efficient, comprehensive, and convenient rubber berm trap cleaning available. Our pricing is competitive and transparent, allowing you to maintain control of your metals value.

FAST AND EFFICIENT Armored Range has developed a proprietary process to clean your rubber berm traps with the safety and profitability of your range in mind, cleaning up-to a 10-lane range per day.

PROPRIETARY EQUIPMENT Our equipment ensures both minimal range operational downtime, with the ability of all of our equipment to fit through standard doorways, and industry leading lead recovery.

TRANSPARENT PRICING Armored Range uses a simple, transparent, all-inclusive pricing structure based on the size of your trap to give you the best return on your metals.

CONVENIENCE We are fully OSHA and EPA compliant with our approved disposal procedures. We provide all the necessary containers, pallets, packaging, and other transport materials, simplifying your role in the process.

- Granulated rubber traps provide an environmentally friendly alternative to traditional steel traps. However, they still require periodic maintenance to remove accumulated lead and rubber fragments.



Steps for Granulated Rubber Trap Mining:

1. **Assessment:**
 - Begin by evaluating the condition of the granulated rubber trap. Look for areas of high lead concentration and signs of wear.
2. **Lead Extraction:**
 - Utilize specialized equipment to extract lead fragments from the rubber media. This may involve the use of lead mining machines or other appropriate tools.
3. **Rubber Replacement:**



- Periodically replace worn or heavily contaminated rubber media to maintain the trap's effectiveness.
- 4. **Surface Leveling:**
 - Ensure that the granulated rubber media is evenly distributed and leveled to provide a consistent shooting surface.
- 5. **Quality Assurance:**
 - Conduct a thorough inspection to verify that lead extraction and replacement processes have been completed satisfactorily.
- 6. **Environmental Compliance:**
 - Properly dispose of lead-contaminated rubber media in accordance with local environmental regulations.

Regular and thorough maintenance of both steel and granulated rubber traps is essential for the safety and effectiveness of shooting ranges. Adhering to recommended cleaning and mining cycles helps prolong the lifespan of these vital components.

OTHER SERVICES



MANAGING BRASS, LEAD, AND HAZARDOUS WASTE PROPERLY

Range biproducts include recyclable hazardous materials such as collected lead, lead dust, brass, and non-recyclable waste such as used PPE and contaminated filters. Ranges are required to properly recycle or dispose of these biproducts. Armored Range can take care of this for you and will provide detailed documentation of our processes for proof of compliance. All you have to do is schedule a pickup and choose to receive the value of your recycled metals in the form of a check or credit for Armored Range products and services.



RANGE WASTE DISPOSAL

Armored Range makes it easy to dispose of your contaminated range waste such as lead-contaminated filters and PPE. Armored Range will pick up and dispose of HVAC and DCU filters for members of our Filter Disposal Program.

Compliant and Reliable Disposal: Armored Range uses approved disposal procedures. Hazardous waste collection and disposal are strictly governed through EPA and DOT regulations. We provide proper disposal documentation, protecting you from potential fines.

RCRA (Resource Conservation and Recovery Act) approved.
OSHA and EPA compliant.

PROCESS YOU CAN TRUST



Effective Proprietary Equipment.

Designed to minimize range down time with all equipment contained within the range during cleaning. Capable of cleaning 10 lanes in 1 day.



Removal and Documentation.

We provide detailed documentation for proof of your ranges hazardous waste removal and disposal.



Comply.

We use approved disposal procedures that are OSHA & EPA compliant.

GAIN MORE SPENDING POWER

Store credit bonus.



Use metals credit at our store Shop.actiontarget.com to buy products, services, supplies, or upgrade range equipment and we'll add a 10% bonus.



Upgrade the experience. Utilize store credits to increase your buying power to get new parts and maintenance to enhance your range and keep it running.

MAINTAIN BERM TRAP QUALITY



Rubber fines removal.

Keeps the rubber depth levels uniform longer to ensure trap safety.



Prevent damage.

Removal of rubber fines prevents bullet penetration damage to your trap deck.



Replenish rubber levels. We replenish rubber to your trap to optimal levels to ensure trap functionality and efficiency.





Protect your investment. Make sure your range is protected with a class-a Flame Lock™ coating.

LEAD SEPERATION

MAXIMIZE YOUR VALUE

More lead.



With mined lead containing less than 1% of rubber you get the most out of your cleaning.

Get value back.



You get the best return as 100% of the metals value belongs to you and your range.



Integrate and save. Integrate with our metals recycling program and get even more value out of your range with credit at the ATI Store.

RANGE SUPPLIES

Everything for your range



Armored Range carries all the essential products to keep your retail area stocked and your range clean, safe, and ready to operate. From range safety products and cleaning supplies to paper, cardboard, and steel targets, we have everything you need to make your range or firearms training program a success.

FAST: We keep our products in stock and ship them quickly, making it easy to optimize your inventory.

RELIABLE: We are dedicated to getting it right, whether it's the products we sell, the orders we ship, or the way we answer the phone.

CUSTOMIZABLE: We design, print, and deliver targets that fit your brand.

INTEGRATED: We turn your recycled metals into range products.

IN CONCLUSION

ARI provides a comprehensive range of services tailored for the maintenance, safety, and regulatory compliance of shooting ranges: This comprehensive suite of services ensures the highest standards of maintenance, safety, and compliance for shooting ranges.