

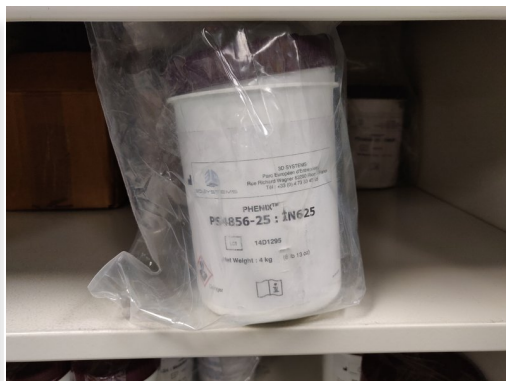


00. PPE and Safety

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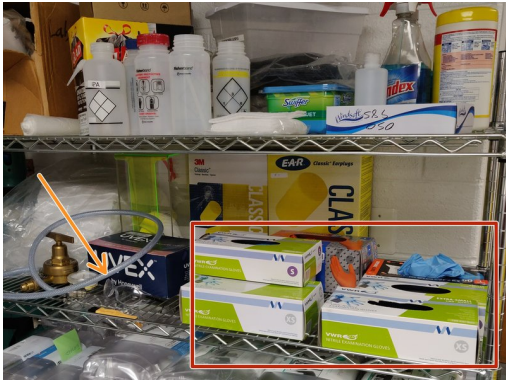


Step 1 — Dangers



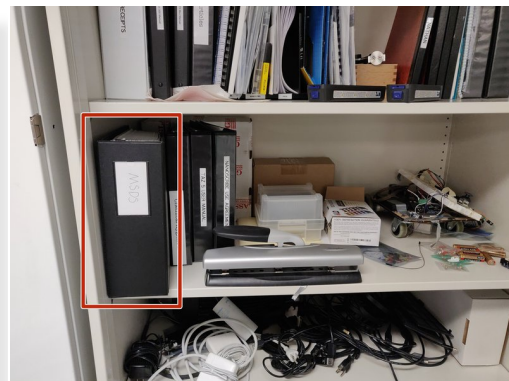
- Laser Exposure (Class 1 with interlocks)
- Powder Inhalation (small particles)
- Powder absorption (small particles)
- Fire from powder ignition
- Argon leak

Step 2 — PPE



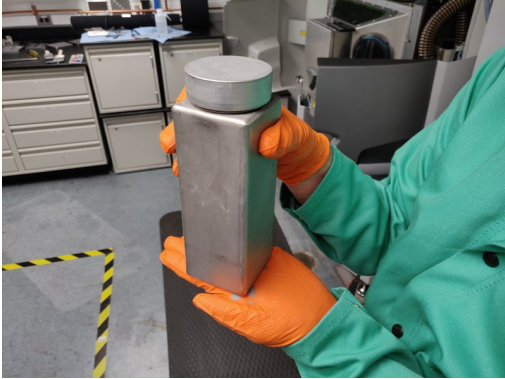
- Nitrile Gloves (**ALWAYS WEAR**)
- Safety Glasses (**Optional**)
- Face Mask (**QUICK USE ONLY**)
- Jacket (**WEAR IF POWDER HANDLING**)
- Full PAPR (**WEAR IF POWDER HANDLING**)
 - Battery, helmet & back pack

Step 3 — Safety Apparatus



- Sink
- O2 Sensor
- Spark Rated Vacuum for Powder
- Machine Related
 - PX Box - sieves powder in a sealed unit
 - SAS Door - sealed entry into ProX
- MSDS Binder - list of potential dangers

Step 4 — Safety Precautions



- Powder must always be in a canister with the lid secured when transferring
- Door interlocks reduce the risk of injury from the dangers of the ProX
- Slow and controlled movement while handling powder to prevent dust ups
- Safety tape showing the appropriate 3 feet of distance for PPE usage
- Proper waste disposal in pink bags

Step 5 — New Safety Precautions for COVID



- Cleaning high touch surfaces after use and at the end of the day with designated cleaner
- Cleaning masks after wearing them with designated cleaner
 - Bring your own foam head padding
- You must wear gloves while using stylus
- Each user will have their own jacket
 - You will wear the jacket when using the machine's glovebox
- Remote training where possible
- Limit the number of people in the lab at one time. (2 ProX + 1 Nanoscribe)