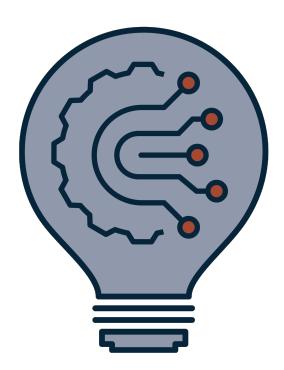
The Rules of the Blaster Design Factory

Adopted by the Mines Maker Society on August 18, 2023



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Mines Maker Society Policy 001 Blaster Design Factory Rules

Last Revised July 9, 2023



Policy 001: Blaster Design Factory Rules

Background and Purpose

The Mines Maker Society is committed to developing a strong "making community" at Colorado School of Mines. The Maker Society will enable these individuals to make anything that they wish to create in the easiest conceivable way for the person wishing to learn (while complying with Mines' regulations and all applicable laws).

This policy outlines rules that govern the Blaster Design Factory and Mines Maker Society.

Policy

In addition to abiding by the Mines Student Code of Conduct, members of the Mines Maker Society and the Makerspace community will adhere to the following guidelines or risk banishment.

- 1. No cursing louder than normal speaking volume and never directly at another person.
- 2. No selling of goods or services under any circumstances in the space.
- 3. No using machinery/tools/anything in the space to make items for profit.
- 4. No storing of items in the space unless approved and only in the marked grey bins for the approved time period.
- 5. Clean up after yourself and the people you let into the space (or make sure they clean up for themselves). This includes wiping the whiteboards after one is done writing. Leave it better than you found it.
- 6. No playing music loud enough so the offices above the makerspace can hear it between the hours of 7am and 6pm. Absolutely no music with obscene lyrics/messages during this time. Between the hours of 6pm and 7am the next morning (after hours), use best judgement, but stay away from playing music that would be offensive to at least 30% of the population. If you wonder if it is allowed, err on the side of caution and do not play it. Noise is not an issue during these times unless someone asks you to turn it down. Comply at this point.
- 7. No writing offensive messages. We are a diverse community. Be respectful.
- 8. No destroying/stealing Maker Society property.

- 9. The Maker Society Executive and Leadership Team reserve the right to hold Executive Session in the Blaster Design Factory when necessary, though this should be done outside of open hours when possible.
- 10. Do not leave your items on tables or workplaces, unattended for longer than 20 minutes.

This list of rules is not comprehensive. Please always use best judgement in actions and words.

Sanctions

Pursuant to the Bylaws of the Mines Maker Society, SAIL and BSO Guidelines, and the Mines Student Code of Conduct, the Executive Board, in consultation with the Club Advisor and the Leadership Board, may sanction individuals for violating the rules of the Mines Maker Society and Blaster Design Factory. Before an individual is sanctioned, a meeting should be scheduled with them to provide Due Process.

Sanctions may include, but are not limited to, required safety training, loss of privileges within the Blaster Design Factory, ineligibility to hold Office within the Mines Maker Society, and in exceptional circumstances, loss of access to the Blaster Design Factory.

Review

Mines Maker Society Policy 002 3D Printing Rules

Last Revised February 27, 2023



Policy 002: 3D Printing Rules

Background and Purpose

The Mines Maker Society is committed to developing a strong "making community" at Colorado School of Mines. The Maker Society will enable these individuals to make anything that they wish to create in the easiest conceivable way for the person wishing to learn (while complying with Mines' regulations and all applicable laws).

This policy outlines rules for Maker Society Members and Members of the Mines Community to use the 3D printing resources of the Mines Maker Society.

Policy

General Rules

The following is a list of laws that anyone must abide by to 3D print in Blaster Design Factory. Failure to comply may result in the suspension of 3D Printing rights.

- 1. Before slicing your first print talk to a space captain on duty, even if you have 3D printing experience.
- 2. Fill out the print survey and the Maker Info placard for all prints.
- 3. Monitor the first layer of the print to make sure it adheres to the build plate.
- 4. Don't put glue on the 3D printer without Space Captain approval. Prints longer than 12 hours or over 250 grams require Space Captain approval. This limit may be changed by the Maker Society Leadership Board during high-volume times of the year.
- 5. Only Space Captains are allowed to change filament on the printer.
- 6. When all printers are in use, printers will operate on a first-come, first-served basis. People wishing to print must put their Blastercards in the Print Queue to get in line for printing. People in the print queue may not leave the BDF for prolonged periods of time and remain in the Print Queue. The Space Captain on duty, Executive/Leadership Board Members, and Space-trusted Directors/Individuals will oversee the use of the Print Queue. Shall a printer become available and the next

- individual in the print queue not be present, then the open printer shall go to the next present person in the Print Queue.
- 7. Do not attempt to repair 3D printers, including performing maintenance and/or calibration. Printer Technicians and Maker Society Leadership may designate other trained persons who may maintain printers or perform repairs.
- 8. Use of personal filament requires Space Captain approval.
- 9. One person should not use more than one printer at a time.
- 10. Only trained Space Captains and Makerspace Leadership are allowed to run and process resin prints.
- 11. Guns, parts for guns, or gun-like parts, porn, and sexual content are not allowed to be printed in the makerspace under any circumstances. If we suspect that your print may break this rule, we will cancel the print and destroy the part.
- 12. Profane language may only be printed with Space Captain approval and outside of working hours.
- 13. Only PLA and PETG materials with no additives are to be printed in the Blaster Design Factory. Exceptions can be made by the Executive Board.
- 14. The 3D Printing Guidelines may be adjusted accordingly by the Maker Society Executive Board to accommodate times of the semester with increased traffic.

Filament Printing

- Don't put glue on the 3D printer without Space Captain approval. Prints longer than 12 hours or over 250 grams require Space Captain approval. This limit may be changed by the Maker Society Leadership Board during high-volume times of the year.
- Only Space Captains and trained individuals are allowed to change filament on the printer.
- Use of personal filament requires Space Captain approval.
- Only PLA and PETG materials with no additives are to be printed in the Blaster Design Factory. Exceptions can be made by the Executive Board and Technicians.

Resin Printing

- Only trained Space Captains and Makerspace Leadership are allowed to run and process resin prints.
- Any person running resin prints must have completed the EHS Lab Safety and Hazardous Waste Generator Trainings before they are allowed to use the resin printers.

- Refer to the SOPs for the Elegoo Mars 3 and Prusa SL1S Speed when printing. Having access to the SOP without a training from a person approved to SLA print does not constitute proper training to use the resin printers.
- The Executive Board, Leadership Board, and/or Technicians shall maintain a list of people approved to use the resin printers.

Sanctions

Individuals and groups who violate 3D printing rules may be sanctioned by the Executive Board in accordance with the procedures established in Mines Maker Society Rules. The most appropriate sanction for violating 3D printing rules is recommended to be a warning, followed by a loss of 3D printing privileges for additional violations. In addition, for violation of Section 2.11, a meeting will be scheduled with the offending individuals or groups to discuss sanctions and/or other repercussions.

Review

Mines Maker Society Policy 003 Key Access Policy

Last Revised July 9, 2023



Policy 003: Key Access Policy

Background and Purpose

The Mines Maker Society is committed to developing a strong "making community" at Colorado School of Mines. The Maker Society will enable these individuals to make anything that they wish to create in the easiest conceivable way for the person wishing to learn (while complying with Mines' regulations and all applicable laws). Part of this mission includes maintaining access to the Blaster Design Factory outside of Space Captain Hours.

This policy outlines the process required for a member of the Maker Society to receive key access to the Blaster Design Factory.

Policy

Members of the Mines Maker Society may petition to get a key to access the Blaster Design Factory when they:

- Are an active member of the Mines Maker Society for greater than two months
- Have a valid reason to be inside the Space after hours, including, but not limited to:
 - Have an active project for which they are using MMS tools for extended periods
 of time and would otherwise disrupt accessibility to other members of the Mines
 community
 - Holds an Executive Board, Leadership Board, or Chair position, or Committee assignment within the Mines Maker Society
 - Are a Space Captain
- Receive recommendation from an individual who currently has possession of a key

Following a petition from an individual requesting a key, the Mines Maker Society Leadership Board will review the request within two (2) Leadership Board meetings, unless postponed by recommendation of the Maker Society Executive Team, and issue a recommendation to the President, Vice President, Treasurer, and Head Space Captain.

After receiving recommendation from the Leadership Team, a three-fourths vote from the President, Vice President, Treasurer, and Head Space Captain shall confer possession of a

key to the member.

Conditions for Key Possession

Once possession of a key has been conferred to a member, those members are expected to uphold all Blaster Design Factory and Mines Maker Society rules to the highest standard. Current Keyholders, Maker Society Leadership, and Maker Society Executive Board may review a member's access to keys should a keyholder be in violation of Maker Society rules or cause other concerns that need to be addressed. Concerns shall be forwarded to the Club Advisor and/or other administration as pertinent.

Review

Mines Maker Society Policy 004 Responsibilities of Established Leadership Positions

Last Revised July 9, 2023



Policy 004: Responsibilities of Established Leadership Positions

Background and Purpose

The Mines Maker Society is committed to developing a strong "making community" at Colorado School of Mines. The Maker Society will enable these individuals to make anything that they wish to create in the easiest conceivable way for the person wishing to learn (while complying with Mines' regulations and all applicable laws). A critical part of the success of the Maker Society is the Establishment of a Leadership Board to aid the Executive Board in accomplishing these goals.

This policy outlines the responsibilities and expectations of those serving on the Leadership Board.

Leadership Board

Members of the Leadership Board should abide by the following expectations.

- 1. General Expectations
 - (a) Uphold Mines Honor Code and the Blaster Design Factory Rules and Policies to the highest standard.
 - (b) Conduct yourself as a professional.
 - (c) Treat people with respect, do not discriminate, and respect boundaries.
 - (d) Help host at least one (1) General Meeting per semester.
- 2. Blaster Blaster Blaster Blaster Blaster Blaster)
 - (a) Work with Office of the President to maintain and repair the Blaster Blaster when requested
 - (b) Implement design upgrades for the Blaster Blaster
- 3. Mines Foundation Liaison
 - (a) During the Fall Semester, lead 3D printed Blaster production for the Foundation's #idigmines campaign

- (b) Work with the Foundation on other promotional projects as needed, within reason
- (c) Work with the Foundation to aid the Mines Maker Society in fundraising for Magic Wheelchair and general club affairs (Goldmine, etc.)

4. Events Coordinator

- (a) Ensure that events are approved and create signup links
- (b) Work with the Leadership Board to ensure general meeting activities are run every general meeting.
- (c) Post events to the Daily Blast and work with the Marketing Coordinator to post events on Maker Society communication channels.
- (d) May, under consent of the Executive Board, create committees and subcommittees for large-scale Mines Maker Society and Blaster Design Factory events.

5. Marketing Coordinator

- (a) Maintain a branding standard for Mines Maker Society and Blaster Design Factory
- (b) Actively run the Instagram account for Mines Maker Society
- (c) Take photos and videos of projects, workshops, and events
- (d) Advertise Mines Maker Society events on Instagram
- (e) For sufficiently large events, coordinate an Instagram takeover on the @coloradoschoolofmines Instagram
- (f) May, under consent of the Executive Board, create a Marketing Committee to delegate duties.

6. Webmaster

- (a) Update and maintain the website when needed
- (b) Maintain the Google knowledge panel for the Blaster Design Factory

7. Magic Wheelchair

- (a) Make children's dreams come true
- (b) Work with an outside organization to find a child to design a costume for
- (c) Organize service events to build the costume with other club members
- (d) Deliver the final costume to the child before Halloween.

8. Space Improvement

- (a) Will improve the Blaster Design Factory (BDF) in either a functional or artistic way
- (b) Coordinate at least one BDF improvement weekend per semester
- (c) Shall chair a Committee of Space Improvement and Maintenance to fulfill the duties of the Office and may delegate Improvement/Maintenance responsibilities to members of such Committee

9. Historian

- (a) Shall provide the Executive and Leadership Boards with Maker Society and Blaster Design Factory History upon their request to aid in decision making
- (b) It is recommended that the Historian shall be composed of the most senior member of the Mines Maker Society
- (c) The Historian may, at their discretion, designate, in part or in whole, their vote on the Leadership Board, to another member of the Mines Maker Society, though no member of the Mines Maker Society may cast more than one (1) vote.
- (d) Shall have the ability to declare themselves a nonvoting member of the Leadership Board and, if they shall elect to do so, will not be counted for the purposes of Quorum

10. Clerk

- (a) Shall keep the Agenda and Meeting Minutes for Leadership Board Meetings
- (b) Shall, with the consent of the Executive Board, keep the Agenda and Minutes for Executive Board meetings
- (c) Shall ensure that all Maker Society policies are reviewed according to their respective policy review schedules.

Pursuant to the Bylaws of the Mines Maker Society, positions on the Leadership Board "are ad hoc and may be adjusted at any time to suit club needs."

Appointed positions shall serve one-year terms equivalent to the Executive Board of the Maker Society and be reelected yearly at the same time, as with the other Officers of the Maker Society, if not dissolved by the Executive Board.

The same person may hold multiple positions on the Leadership Board and Executive Board with the consent of the Executive Board, but they shall only receive one (1) vote. However, no person shall hold multiple positions on the Executive Board.

Chairs

The Executive Board may also create Committees for short-term appointments. Each Committee shall consist of a Chair appointed by the Executive Board and other members so determined. Unless otherwise decided by the Executive Board, Chairs and Committee members shall be nonvoting. This section shall not be construed as to remove a vote from

a Voting member of the Executive or Leadership Board. However, shall a member of the Executive and/or Leadership Board be granted a vote by a Committee Assignment, they shall only receive one (1) vote total.

The Executive Board may dissolve a Committee at any time.

Sanctions

The Executive Board shall reserve the right to sanction or assign consequences to members of the Leadership Board for violations of the Bylaws of the Mines Maker Society, Maker Society Rules and Policies, or the Colorado School of Mines Student Code of Conduct. These sanctions shall abide by all Mines Policies, especially the Student Code of Conduct.

The Executive Board may request advice from its Faculty Advisor, Historian, or other Leadership and Club members should they deem necessary. SAIL should be notified about incidents when appropriate.

Review

This policy may be reviewed at any time pursuant to the Bylaws of the Mines Maker Society, and this policy shall be reviewed at least annually by the Maker Society Executive Board.

Mines Maker Society Policy 005 Locker and Bin Storage Policy

Last Revised Revised July 9, 2023



Policy 005: Locker and Bin Storage Policy

Background and Purpose

The Mines Maker Society is committed to developing a strong "making community" at Colorado School of Mines. The Maker Society will enable these individuals to make anything that they wish to create in the easiest conceivable way for the person wishing to learn (while complying with Mines' regulations and all applicable laws).

A service that the Club provides is the ability to store certain projects for medium-term storage.

Policy

Any individual of the Mines Community may request to have a locker or storage bin to store items.

Individuals using storage spaces are expected to comply with all Maker Society policies. At all times, items must be stored safely according to EHS guidelines. Individuals understand that storage spaces may be subject to search for safety and other reasonable concerns. The Maker Society Executive and Leadership Boards reserve the right to revoke storage privileges, and individuals will be given a minimum one-week (5 business day) warning to remove their belongings from the Blaster Design Factory, after which the items will be disposed or donated.

Mines Community members may reserve a locker when a locker is available. Students may not use more than one locker at a time. Locker access shall be reviewed at the end of the Fall and Spring semesters.

Members of the Mines Maker Society may petition to use a storage bin to store longer-term projects and supplies for events. This petition shall require a two-thirds majority of the Executive and Leadership Boards for approval, unless the threshold is changed by a majority of the Executive Board. Storage bins may be used for one project for no longer than the semester in which they were requested, unless extended by the Executive and Leadership Boards under the procedures outlined above.

Review

Mines Maker Society Policy 006 Departmental Partnerships

Last Revised July 28, 2023



Policy 006: Departmental Partnerships

Background and Purpose

The Mines Maker Society is committed to developing a strong "making community" at the Colorado School of Mines. A core part of developing this community is partnerships with other Mines Departments, Mines Organizations, and other community causes.

Policy

When a department is interested in working with the Maker Society, they should reach out to the President or the Vice President of the club. This request should include:

- Contact Information
- Description of the project and/or the requirements
- Timeline of the event or project
- Description of services from the Maker Society
- Estimated cost and which party will cover the cost

Once the request is received, the Executive Board will determine if it is feasible for the club to proceed with the collaboration. If it is, it will be brought to the Leadership Board within two (2) meetings, where it will determine if it is feasible. If approved, it will be assigned to a Maker Society member, who will then lead the project. The individual requesting the project may be requested to appear at leadership board meetings.

If the project is started and it is then determined that the project is not feasible, the Leadership and Executive Board may cancel the project with a two-thirds (2/3) affirmative vote.

Review

Mines Maker Society Policy 007 Printer Reservation Policy

Last Revised July 28, 2023



Policy 007: Printer Reservation Policy

Background and Purpose

The Mines Maker Society is committed to developing a strong "making community" at Colorado School of Mines. The Maker Society will enable these individuals to make anything that they wish to create in the easiest conceivable way for the person wishing to learn (while complying with Mines' regulations and all applicable laws).

This policy outlines rules for reserving 3D printers for long-term use.

Policy

Individuals of the Mines Community may petition to reserve 3D printer capacity. An individual must petition to reserve printers in accordance with the Departmental Partnerships Policy. Individuals requesting to reserve a printer to use more than one (1) kilogram of filament are expected to cover the cost of the filament.

Under the discretion of the Liaison to the Mines Foundation, one (1) printer may be reserved each Fall semester (and leading up to the #idigmines Campaign) for the printing of Golden Blasters.

Review

Mines Maker Society Policy 008 Space Cleanliness

Last Revised September 13, 2024



Policy 008: Space Cleanliness

Background and Purpose

The Mines Maker Society is committed to developing a strong "making community" at Colorado School of Mines. The Maker Society will enable these individuals to make anything that they wish to create in the easiest conceivable way for the person wishing to learn (while complying with Mines' regulations and all applicable laws).

An important part of a strong making community is ensuring that clean and space safe to work in.

Policy

In order to maintain a clean and safe space, please follow these guidelines:

- In general, your work area should be cleaned to the state you found it in or better.
- If you write on the whiteboard tables or the glass, wipe it away before you leave your work area.
- If you take tools or materials out of any of the chests, cabinets, materials cart, or the cage, return what was removed back to it's original location once you finish your work for the day.
- If you use a machine in the Blaster Design Factory, turn off the machine once you have finished using it (3D printers only need to be turned off over breaks unless in use).
- If you are going to be leaving your work area for greater than twenty (20) minutes, clean up the spot that you were working on to make it look like you haven't worked there.
- If you're using cutting tools that leave particles on the floor, it is your responsibility to vacuum the floor and the surrounding areas using the shop-vac.
- If using the vinyl cutter, you must remember to remove any images copied to or downloaded to the vinyl cutter computer before logging off. Additionally, all vinyl/transfer paper scraps must be thrown away when done.

- Food may not be stored, prepared, or consumed in the Blaster Design Factory, except in the case of an event approved by a majority of the Leadership and Executive Boards and when no active work is being completed by any person in the BDF.
- Unplug hot glue guns when not in use.
- Turn off the soldering iron when not in use.

Due to the characteristics of epoxy and fiber-reinforced composites, additional guidelines have been put in place to ensure effective and safe use of these materials:

- All epoxy storage, work, and curing must stay within the designated epoxy area. The epoxy area is marked with blue floor marking tape. Epoxy may only leave the designated area during workshops approved by a majority of the Executive and Leadership Boards.
- All curing epoxy and components with curing epoxy must remain in the designated epoxy curing area until the epoxy has fully hardened. The epoxy curing area is marked with green floor marking tape.
- Epoxy components (resin, hardener, and additives) must remain in the epoxy cabinet when not in use.
- Epoxy may not be used at the fabrics station or computer table.
- Before working with epoxy, your working surface(s) must be protected with wax paper or cardboard. Paper and other absorbant materials may not be used to protect surfaces.
- After working with epoxy, all working surface(s) must be throughly cleaned. Epoxy may not remain on whiteboard tables or work tables in any form.
- The epoxy curing area should be kept clear when not actively being used. Fully cured epoxy and epoxied components should be removed from the epoxy curing area to make space for other active projects.
- All work with loose fiber reinforcement (including cloth, fabric, and tow), including cutting and layups, must be done over the concrete floor. After work, all loose fibers must be cleaned with the broom and shop-vac.
- Fiber-reinforced composites (including those reinforced with basalt fiber, carbon fiber, or glass fiber) may not be cut, sanded, machined, or otherwise generate dust in the Blaster Design Factory except when the following conditions are met:
 - 1. Work with these composites is done after hours
 - 2. Work is done with proper dust extraction to minimize airborne particles
 - 3. All individuals working with these composites are wearing appropriate Personal Protective Equipment (PPE)
 - 4. All individuals in the Blaster Design Factory are notified of the work with these composites

- 5. All dust is thoroughly cleaned after working to minimize exposure to other individuals using the Blaster Design Factory
- Any composite fibers or dust left in the Blaster Design Factory will result in a one (1) week suspension of all work on composites in the Blaster Design Factory.

This is not an exhaustive list. The members of the Maker Society Executive and Leadership Boards may request that individuals and groups abide by reasonable expectations.

Conflict of Interest

This Policy outlines procedures by which organizations other than the Mines Maker Society may request exceptions to the rules. Should an external organization request an exception to the rules, any Officer of the external organization who is also an Officer of the Mines Maker Society shall abstain from voting on approving the exception. This shall only apply to procedures outlined in this policy.

Sanctions

The first significant violation of space cleanliness will result in a warning from a member of the Leadership Board. Further significant violations will each result in a one (1) week suspension from using all tools and materials relevant to the violation. Repeated violations of these guidelines may also result in a meeting with member(s) of the Executive and/or Leadership Boards, and further sanctions may be applied. These sanctions may apply to individuals or organizations who use the Blaster Design Factory.

Review