

# Air Quality Management

Air quality is a matter of safety. When there is fine dust in the air, it is very dangerous for people. The systems at Ace need to be used mindfully to be effective.

- This job should take 4 hours for one person. If this job finishes too quickly or goes too long, it means there is a misunderstanding of the tasks.
  - Trusses = 35 min.
  - Walls = 35 min.
  - Cyclone = 20-25 min.
  - Vacs = 35-85 min.
  - Mega Dust = 2 hours
- Summary of activities: It is important to do these things in order to be most effective.
  - Jet Air Filters
  - Cyclone
  - Shop Vacs
  - Mega Dust tools (see wiki)
- Let the rest of us know what happened
  - **Please use the /asset tool in Slack to update the status of equipment *as you work on it***
  - **PLEASE send a /buy request if we are out or running low on any filters**

**Cadence:** Monthly

# Filter Cleaning / Replacement

## [AMT244 Jet Air Filter System](#)

- ❑ Verify it is working properly, including timers
- ❑ Vacuum clean the inner filter
- ❑ Replace - see wiki tool page
  - ❑ Replace filter as needed, usually about every 4 weeks (check logs)- check the wiki for what to look for to choose when to replace the filter and for where the backstock of filters are kept
  - ❑ Never clean the filter with the brush vac head as it damages the fibers

## [AMT243 Jet Air Filter System](#)

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# Dust Collection Maintenance

## [AMT197 Workshop Shop Vac](#)

- ❑ Empty, Clean filter if not replacing
  - ❑ Replace filter every 2 months - check logs to find out if this is needed
- ❑ Check cords are in good condition and undamaged
- ❑ Order filters every 6 months

## [AMT196 Workshop Shop-Vac - Floating](#)

- ❑ Empty, Clean filter if not replacing
  - ❑ Replace filter every 2 months - check logs to find out if this is needed
- ❑ Check cords are in good condition and undamaged
- ❑ Order filters every 6 months

## [AMT242 Rigid 12 gal wet dry vac](#)

- ❑ Empty, Clean filter if not replacing
  - ❑ Replace filter every 2 months - check logs to find out if this is needed
- ❑ Check cords are in good condition and undamaged

- ❑ Order filters every 6 months

#### AMT253 – RIDGID SHOP VAC

- ❑ Empty, Clean filter if not replacing
  - ❑ Replace filter every 2 months - check logs to find out if this is needed
- ❑ Check cords are in good condition and undamaged
- ❑ Order filters every 6 months

#### AMT359 Rigid Shopvac

- ❑ Empty, Clean filter if not replacing
  - ❑ Replace filter every 2 months - check logs to find out if this is needed
- ❑ Check cords are in good condition and undamaged
- ❑ Order filters every 6 months

#### AMT255 Clear Vue Cyclone

- ❑ Empty Can
- ❑ Check there are no blockages in the yellow metal cone
- ❑ Blow out and check the large heppa filter (there is a hair dryer for this DO NOT USE THE COMPRESSOR) - See the tool wiki for details
- ❑ Empty the filter collection at the bottom filter stack
- ❑ Inspect the filter stack for damage and alignment. The slack should be in alignment vertically, not twisted or tilted, and joints tight and even.
- ❑ Check impeller for the build-up and clean as needed (needed = there has been a noticeable drop in suction performance) every 3 months. **This task requires specific training and/or needs to be done with the buddy.**
- ❑ Check the lines for blockages and build up - Use the compressor to blow out the lines. Requires knowledge of using a compressor.
  - ❑ Blowing out the lines
    - ❑ Close ALL the gates
    - ❑ Turn on the cyclone
    - ❑ Start in the front line and clean each tool of any build-up
    - ❑ Using the compressor to Literally blow out the build-up at each tool and intake for at least 1-2 min. It will seem like a long time. Use a timer if needed.

# Mega Dust

- ❑ [Complete a shop mega dust](#) - this is a tricky task. Doing the trusses, walls, and duct work before anything else because when you do them, you knock dust everywhere. Mega Dust must be done *after* all other maintenance.
- ❑ **Prepare yourself, the tools, and the rooms**
  - ❑ Put away any hand tools or supplies that have been left out
  - ❑ Put away all consumables that have been left out
  - ❑ Set all the big tools back in their default locations
  - ❑ **Put on a dust mask - N95 or Full Respo. No really. This is dangerous.**
  - ❑ Turn on the air scrubbers and the cyclone - have at least two gates open to the room as you work.
  - ❑ Make sure the dusting tools are in good order, including replacing dirty covers with clean ones. Tools
    - ❑ Big Dust Mop
    - ❑ Gutter Kit
    - ❑ Hook Extension duster
- ❑ **Knock-down the dust**
  - ❑ The idea here is to get the dust to a place you can vacuum it up or it will be captured by the cyclone or the air filters.
  - ❑ Sweep off all the worksurfaces
  - ❑ Use the dust broom to knock the dust off all the walls
  - ❑ Use the curvy bendy duster tool to knock the dust off the pipe
- ❑ **Blow it out**
  - ❑ Turn on the air scrubbers and the cyclone - have at least two gates open to the room as you work. However, they should be on already.
  - ❑ Use the air compressor to blow off the walls, and tools, under and around all the surfaces. This agitates the fine dust so the jets' and cyclones can suck them up and filter them
- ❑ **Suck it up**
  - ❑ Using a ladder and the [gutter kit](#) for the shop vac, vacuum all the ledges on the trusses and any other items hanging from the ceiling
  - ❑ Vacuum out the grey bins under the fire cabinet
  - ❑ Wipe down/vacuum off the tops of the PPE bins behind the door. Do not use wet rags. Dry-wipe only. You are trying to agitate the dust so it can be sucked away.
  - ❑ Shop-vac off of major tools and wood storage areas
  - ❑ Vacuum dust the hardware storage area
  - ❑ Sweep and shop vac the floors, including:
    - ❑ under the workbenches

- tools under workbenches
- Vac up the dust in the outer hallway
- Vac up the dust in the stairwell to Clean Fab including the walls
- Send it to the cleaners**
  - Take the covers off the bendy duster and the wide dust mop. Bag them in a kitchen bag.
  - Attach a note that says: "WASH ME and return to grey cabinet within two weeks, please. Counts as a little thing."
  - Post a photo to the Channel and ask for a volunteer to wash them.
  - Put new covers on dusters. They should be in the grey cleaning supplies cabinet in suite #113 or in the supply closet