

4D LABS CLEANROOM (TASC2 6060.3/5/7/13) WETBENCH AREA

PERSONAL PROTECTIVE EQUIPMENT (PPE)

		GENERAL WETBENCH WORK -IPA -acetone -etc.	PHOTORESIST & SPINCOATING	BASES -all bases -KOH -NH ₄ OH -etc.	DEVELOPERS & STRIPPERS -excl. Nanostrip	METAL ETCHANTS -Au etchant -Cr etchant -Al etchant -etc.	ACIDS -all acids -BOE / HF -Nanostrip -RCA -etc.
Category 1	Standard Cleanroom PPE (Gown + Gloves + Safety Glasses)	✓	✓	✓	✓	✓	✓
Category 2	Cleanroom Gloves (second pair)	✓	✓	✓	✓	✓	✓
Category 3	Face Shield						✓
	Apron						✓
	Green Nitrile Gloves						✓

NOTES:

- Remove category 3 PPE when finished working with acids. **DO NOT wear category 3 PPE outside of the acid bench room.**
- Remove category 2 PPE (outer glove layer) when gloves are noticeably contaminated, when moving from one wetbench room to another, or when finished working on the wetbenches.
- Category 1 PPE must be worn at all times and in all other areas within the cleanroom.

4D LABS **CLEANROOM** (TASC2 6060.3/5/7/13) WETBENCH AREA

ALLOWABLE BENCH PROCESSES / CHEMISTRIES

	ORGANICS & STRIPPERS	BASES	DEVELOPERS	METAL ETCHANTS	ACIDS
	-IPA -acetone -excl. Nanostrip -etc.	-all bases -KOH -NH ₄ OH -etc.		-Au etchant -Cr etchant -Al etchant -etc.	-all acids -BOE / HF -Nanostrip -RCA -etc.
Wetbench #1 (Organics)	✓				
Wetbench #2 (HF/Acids/Bases)		✓		✓	✓
Wetbench #3 (Developers)			✓		
Wetbench #4 (KOH/Metal Etch)		✓		✓	
Wetbench #5 (RCA Clean)					✓

NOTES:

- Only 1 user (or team of 2) permitted on a bench when acid work is in progress.

4D LABS **WETLAB** (TASC2 6074/6076) AREA

PERSONAL PROTECTIVE EQUIPMENT (PPE)

		GENERAL WORK & OBSERVATION -electroplating -IPA/acetone -etc.	PHOTORESISTS & SPINCOATING	BASES -all bases -etc.	SPRAYCOATING & HOT PRESS	NANOPARTICLES	ACIDS -all acids -etc.
Category 1	Standard Wetlab PPE (Lab Coat + Safety Glasses + Blue Nitrile Gloves)	✓	✓	✓	✓	✓	✓
Category 2	Blue Nitrile Gloves (second pair)					✓	
Category 3	Face Shield						✓
	Apron						✓
	Green Nitrile Gloves						✓

NOTES:

- Remove category 3 PPE when finished working with acids. **DO NOT wear category 3 PPE outside of the wetlab room.**
- Remove **all gloves** from at least one hand prior to opening/closing doors. **Door handles are not permitted to be handled with gloves.**

4D LABS **WETLAB** (TASC2 6074/6076) AREA

ALLOWABLE BENCH PROCESSES / CHEMISTRIES

	Electroplating	BASES -all bases -KOH -NH ₄ OH -etc.	ACIDS -all acids -BOE / HF -Nanostrip -RCA -etc.	ORGANICS, SOLVENTS, PHOTORESISTS & SPINCOATING	NANOPARTICLES
Wetbench #6 (Electroplating)	✓				
Wetbench #7 (Acid Cleaning)		✓	✓		
Wetbench #8 (General Solvent)				✓	
Wetbench #9 (Organic Cleaning / Nanoparticle)					✓

NOTES:

- Only 1 user (or team of 2) allowed on a bench when acid work is in progress.