An Introduction to Safety in Engineering Shops at UNF

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Regulatory & Governing Agencies

ACGIH®

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

ANSI
Fire Marshall

- Fire Lane must be kept clear at all times
Fire Marshall

- Emergency Egress
- Keep these clear of obstructions
Loading and Unloading

- The dock area is not a parking lot
- Coordinate with your group to unload your materials quickly
- The dock is not for storage of excess materials – order/purchase only what you will use
Fire Marshall Storage Height

- You must keep at least 18” of space between the highest item on a shelf and the ceiling of the room or the plane of the bottom of the sprinkler head whichever is lower.
Chemical Safety & Chemical Storage

- Chemicals must be stored below eye level.
- Lids must be securely attached.
- Flammables in flammable storage cabinets.
- Corrosives separated into Acid & Bases.
Flammable Materials

- Must be stored in a flammable cabinet
- Space is limited in cabinets do not purchase more than you need
Fire Marshall & electric panels

- Must be kept clear
- 3’ clearance
Material Disposal

- Plan for disposal before beginning your project
- Recycle if possible
- Spray Cans are sent to recycling on campus
Flammable – Flash point < 60°C (140°F) or alcohol content

Corrosive – pH less than 2 or greater than 12.5

Reactive – reacts violently with water, or normally unstable, releases toxic gases when mixed with water.
Compressed Gas Cylinders

- UNF Compressed Gas Rules
- Chained and secured
- Transport caps in place
- Dolly or hand truck for moving cylinders
Chemical Safety

- Material Safety Data Sheets
Personal Protective Equipment

- Safety glasses
- Safety goggles
- Face shield
Welding Safety

- Eye protection
- Skin protection
- Spectators protection from the light energy
Personal Protective Equipment

- Safety glasses are required when any machinery is in operation in the machine shop.
- You are responsible for providing your own safety glasses.
Fabrication Lab Access

- Via blackboard,
- You must complete quiz within blackboard
- Be trained on each piece of equipment you will be using
Questions?

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