FAMU SAET – Equipment Safety Protocols Manual

At the Florida A&M University School of Architecture & Engineering Technology (SAET), we believe that design innovation and technical mastery must go hand in hand with a firm commitment to safety. As students and faculty engage in hands-on learning—operating saws, welders, printers, and CNC tools—it becomes essential to cultivate a safety-first culture that mirrors professional practice.

This Equipment Safety Protocols Manual provides curated safety resources for each of the core machines and tools used across our programs. These links come from reputable sources, including OSHA, equipment manufacturers, and university training platforms. Whether you are preparing to use a table saw in the woodshop or a laser cutter in the digital fabrication suite, you must understand and follow proper procedures before operating any equipment.

Students are responsible for reviewing the safety information associated with any tool they plan to use. This knowledge protects not only your personal well-being, but also that of your peers. It also ensures that SAET maintains an environment of professionalism, accountability, and technical excellence. Faculty may require students to pass a safety quiz or orientation before tool access is granted.

Use the links below to access the relevant safety guide for each piece of equipment.

Wood & Fabrication Equipment Safety

- **Table Saw**

  Table Saw Safety – Woodworkers Guild of America (WWGOA)

- **Panel Saw**

  Panel Saw Safety Guidelines – SafetyCulture

- **Miter Saw**

  Miter Saw Safety – OSHA Alliance Program

- **Band Saw**

  Band Saw Safety – OSHA Education Center

- **Scroll Saw**

  Scroll Saw Safety Tips – Rockler

- **Sanders**

  Disc and Belt Sander Safety – MIT EHS

- **Drill Press**

Drill Press Safety – Oregon State University

- **Planer**

  Planer Safety Rules – Purdue University

- **Jointer**

  Jointer Safety Guidelines – Fine Woodworking

Welding & Metalworking Safety

- **Arc Welder**

  Arc Welding Safety – Lincoln Electric

- **Mig Welder**

  MIG Welding Safety Guidelines – Miller Electric

- **Oxy/Acetylene**

  Oxy-Acetylene Safety Manual – American Welding Society (AWS)

- **Gas Welding**

  Gas Welding Safety Tips – Safe Work Australia

- **Bending Break**

  Metal Brake Safety – CTE Skills Video Overview

- **Chop Saw**

  Abrasive Chop Saw Safety – Grainger Safety

- **Beverly Shear**

  Beverly Shear Safety Tips – Trick Tools

Hand Tools, Power Tools & Air

- **Hand Tools**

  Hand Tool Safety – OSHA QuickCard

- **Power Tools**

  Power Tool Safety – NIOSH/CDC Guide

- **Air Compressor**

  Air Compressor Safety Checklist – Kaeser Compressors

Digital Fabrication & Printing Equipment

- **Epilog Fusion Pro 16000 Lasers**

  Laser Safety Overview – Epilog Safety Training

- **Epilog Fusion Pro 131000 Lasers**

  Operating Safely with Epilog Lasers – Epilog Knowledgebase

- **Canon TX-9100 Plotters**

  Canon TX-9100 Series – Safety Information Guide (PDF)

- **Canon IPF850 Plotters**

  Canon imagePROGRAF Safety and Setup Manual

- **Ultimaker S3**

  Ultimaker 3D Printer Safety Guide

- **xTool F/Pro**

  xTool Laser Safety Guide – xTool Support