Aerospace Engineering Machine Shop Specific Hazards

In the Aerospace Engineering Instrument shop (ECAE 1B35), and it’s corollary AE/ME Welding shop (ECAE 1B35A), the following machines exist for use:

Drill Press
Arbor Press
Shear
Press Brake
Press punch
Belt sander
Tool grinders
Misc. powered hand tools
Misc. hand tools
Horizontal band saw
Vertical band saw
CNC vertical milling machines
CNC lathe
Toolroom lathe
Engine Lathe
Compressed gas (argon, acetylene, oxygen)
Mig & Tig welder
Oxy-acetylene torch
Chemical solvents (acetone, alcohol)

The following injuries can result from improper or unsafe use of these machines:

Lacerations
Crushing injuries
Loss of digits, extremities
Dismemberment
Explosion related injuries
Burns
Scrapes, abrasions
Poisoning
Chemical burns
Eye injuries, blindness
Death

Please read your safety contracts for appropriate behaviors related to machines. Also read the safety guidelines for each machine you use located in the machine shop workshop files on the senior projects website. DO NOT use machines that you don’t fully understand. DO NOT use machines without another person present. Ask Matt Rhode or your safety engineer for instruction before using machines.