

Independent Private Commercial Business Machine Tool and Die Shop and Training Center

The importance of these businesses in the assemblage, there all training centers for TCCBTS. Every one of these assemblages of independent private businesses will be housed, either attached together or located next door to each other. The trade school will be in the center of the assemblage of businesses so interns/apprentices can just walk next door to go to work, walk next door to eat or purchase their necessities. Each and every business in the assemblage will be training centers for the trade school and will offer full and part time jobs to the community. Each independent private commercial business will work in cooperation with Tech Craftsman Career Center and the trade school to supply part time trade school interns/apprentices to be paid employees working part time to gain real life experiences.

Tool and Die Makers are also known as: Toolfitter, Tool Fitter, Moldmaker, Mold Maker, Toolmaker, Tool Maker, Diemaker, Die Maker, Tool and Die Machinist.

Inside the assemblage of private independent commercial businesses will be the Precision Machine Tool and Die Shop, technician and trained personal will work with TCCBTS interns/apprentices which will be part time paid employees from Tech Craftsman Career Building Center's Trade School, all interns/apprentices will be trained in a real life job setting, using every type of heavy and light equipment to machine and form every type of component.

Being an Independent Private Commercial Business in Machine Tool and Die technicians with professional employees working alongside the trade school's part time workers enrolled in Tech Craftsman Career Building Center's interns/apprentices programs, when out of class those interns/apprentices will be working at this Independent Private Commercial Business Machine Tool and Die Shop and Training Center as on the job being paid employees.

The Machine Tool and Die Shop Machinists Technicians will sets up and operates a

variety of computer-controlled and mechanically-controlled machine tools to produce precision metal parts, instruments, and tools. Technicians and interns/apprentices will work in the machine shops and tool rooms and on factory floor.

This Independent Private Commercial Machine Tool and Die Company will work with automotive machine shops when there is a need to reproduce any automotive component, especially components out production or out of date components.

The main job will be studying blueprints, sketches, specifications, or computer-aided design (CAD) or computer-aided manufacturing (CAM) files for making tools and dies to design and produce products customers need. Technicians will compute and verify dimensions, sizes, shapes, and tolerances of workpieces.

Another job is setting up, operate, and tear down conventional, manual, or computer numerically controlled (CNC) machine tools file, grind, and adjust parts so that they fit together properly.

The technicians will test completed tools or dies to ensure that they meet specifications while inspect for proper dimensions and defects smooth and polish surfaces of tools and dies.

Technicians will use toolmakers craft precision tools and tool holders that are used to cut, shape, and form metal and other materials. The technicians will also produce jigs and fixtures devices that hold metal while it is bored, stamped, or drilled, and gauges and other measuring devices to meet all customer needs.

Our die makers construct metal forms, called dies, which are used to shape metal in stamping and forging operations. They will also make metal molds for die-casting and for molding plastics, ceramics, and composite materials.

Our Machine Tool and Die Shop will use CAD's to develop products and parts. Specifications entered into computer programs can be used to electronically develop

blueprints for the required tools and dies.

The machines our independent private machine tool and die company will use are computer numeric control programmers which will use CAD and CAM programs to convert electronic drawings into CAM-based computer programs that contain instructions for a sequence of cutting tool operations. Once these programs are developed, CNC machines follow the set of instructions contained in the program to produce the part.

The Independent Private Machine Tool and Die Shop Machinists will operate CNC machines, our machine tool and die shop machinists and any intern/apprentice will be trained to both operate CNC machines and write CNC programs, and they may do either task.

The workplace for the Independent Private Machine Tool and Die Shop Machinists will be working in manufacturing. They work in machine shops and tool rooms and on factory floors, where work areas are safe, well-lit and ventilated.

Independent Private Machine Tool and Die Shop realize that although the work generally is not dangerous but always working around machine tools presents certain hazards and our workers must follow precautions. Workers must wear protective equipment, such as safety glasses to shield against bits of flying metal and earplugs to dampen the noise produced by machinery, taking those precautions will give our workers as safe work environment to work in.

The Independent Private Machine Tool and Die Shop Machinists , yes, at time will work full time during regular business hours, however, overtime is common for full time employees, part time TCCBTS interns/apprentices employees will be restricted on working more than part time because of the demand for class time. Because many manufacturers run the machinery for long hours, evening and weekend work will be common.