

Independent Private Commercial Business: Automotive Machine Shop and Training Center

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.

Machine shops disassemble pistons, clean them and put them back together to enhance engine performance. The shops take apart transmissions and clean the gears. Machine shops grind and bore holes to exact measurements that match other parts that fit into the holes. They match and time valves properly to ensure fluid and air flow properly in an automobile. They also dismantle engine blocks and alter them for better performance with regards to pistons, spark plugs and fuel injection.

Cleaning tanks let automotive parts soak and clean in various chemical baths. Boring machines are huge set-ups with heavy equipment that grind out holes for pistons in an engine block to precise widths. Balancing tables allow machinists to add or subtract precise weights that ensure parts are balanced perfectly so the engine runs smoothly. Ovens heat up small parts and pins so they can fit inside other engine parts. When these metal parts cool, they are locked in place due to expansion.