

MACHINE TECHNOLOGY 1 – 4
(NEW NAME: MACHINE TOOL TECHNOLOGY 1 – 4 EFFECTIVE 2018-19)
EQUIPMENT LISTING

| Tools | Equipment | Quantity | Required |
|---|---|-----------------|-----------------|
| 0-1" OS micrometer | | 26C | Y |
| 1-2" OS micrometer | | 26C | Y |
| | ½" drill, variable speed, reversible, portable, corded | 2C | Y |
| | ¼" drill, variable speed, portable, cordless | 2C | Y |
| | 10" pedestal grinder | 2C | Y |
| 12" rule | | 20C | Y |
| 2-4" OS micrometer | | 6C | Y |
| | 200-amp GMAW arc | 1C | Y |
| ¾" dia. Machine ream | | 6C | Y |
| 3/8" dia. hand ream | | 6C | Y |
| 4" or 6" divider | | 6C | N |
| 45 degree chamfer tool | | 7C | Y |
| | 6" bench grinder | 2C | Y |
| 6" dial or electronic Vernier caliper | | 26C | Y |
| 6" or greater milling vise | | 6C | Y |
| 6" rule | | 20C | Y |
| | 7" disc grinder | 3C | N |
| 8" adjustable wrench | | 10C | Y |
| Adjustable parallels | | 10C | Y |
| | Angle plate (or precision grinding vise) | 2C | Y |
| | Arbor press | 1C | Y |
| Assorted C-clamps | | 12C | Y |
| Assorted mill files | | 10C | Y |
| Ball peen hammer, assorted sizes | | 20C | Y |
| | Boring bar and boring tool (capable of boring to a square shoulder) | 6C | Y |
| Carbide tool bits for straight and shoulder turning, and facing (pre-ground) to included holders, tool posts, and | | 30+C | Y |

| Tools | Equipment | Quantity | Required |
|---|--|-----------------|-----------------|
| inserts | | | |
| Center drills | | 20C | Y |
| Center punch | | 12C | Y |
| | CNC lathe center (small) | 1C | Y |
| | NCN mill center (small) | 1C | Y |
| Combination square set | | 12C | Y |
| Composition hammer (soft face, dead blow) | | 12C | Y |
| | Counter bore set, including 3/4 dia. With 5/16 pilot and 19/32 dia. With 25/64 pilot. | 3+C | Y |
| Countersink, 1" dia. 82 degree | | 6C | Y |
| Countersink, 3/4" dia. Minimum | | 4C | Y |
| | Cutters and cutter adapters (fitted to the machine spindle), assorted 3/16" – 3/4" set | 6C | Y |
| Cutting-off tool and holder | | 6C | Y |
| Demonstration model micrometer | | 1C | Y |
| | Depth micrometer set | 6C | Y |
| | Dial indicator with magnetic base | 8C | Y |
| Diamond dresser | | 3C | Y |
| Drill bit, #7 | | 12C | Y |
| Drill bit, 1/2" | | 12C | Y |
| Drill bit, 1/4" | | 12C | Y |
| Drill bit, 3/8" | | 12C | Y |
| Drill bit, 47/64" with 1/2" shank | | 6C | Y |
| Drill bit, 5/16" | | 12C | Y |
| Drill bit, 7/8" with 1/2" shank | | 6C | |
| | Drill bits, fractional | 45C | Y |
| | Drill bits, fractional sizes, 23/64" – 1" | 2C | Y |
| | Drill chuck, key, and sleeve for tailstock | 6C | Y |

| Tools | Equipment | Quantity | Required |
|--|--|-----------------|-----------------|
| | mounting | | |
| | Drill chuck, with key to fit machine spindle | 6C | Y |
| | Drill press | 2C | Y |
| | Drill press vise | 2C | Y |
| Drive plate and dog | | 6C | Y |
| Dye bottles, layout | | 4C | Y |
| Edge finder | | 12C | Y |
| | End mills and end mill holders, assorted (1/8" – 1" set) | 30+C | Y |
| | Engine lathe 14" x 30" minimum capacity w/ accessories and tooling (quick change gear box) | 6C | Y |
| Face mills, 2" diameter, carbide inserts | | 6C | Y |
| Face mills, 3" diameter, carbide inserts | | 6C | Y |
| | Four-jaw independent chuck | 6C | Y |
| Grinding wheels (suitable for mounting to the spindle), assorted | | 20C | Y |
| | Height gage | 4C | Y |
| Hole gauge set, small | | 2C | Y |
| | Horizontal band saw | 1C | Y |
| Inserts for face mill | | 72C | Y |
| Internal threading tool | | 6C | Y |
| | Joe blocks set | 2C | Y |
| Live and dead centers, thread chasing dial | | 6C | Y |
| Machinist handbook | | 1 set | Y |
| Magnetic base for indicators | | 6C | Y |
| | Magnetic chuck (dressed) for surface grinder | 3C | |
| | Micrometer set (1"-2", 2"-3", 3"-4", 4"-5", 5"-6") | 6C | Y |
| | Oxyacetylene portable cutting and brazing | 1C | N |

| Tools | Equipment | Quantity | Required |
|--|--|-----------------|-----------------|
| | outfit w/assortment of tips | | |
| Parallel set | | 6C | Y |
| Prick punch | | 6C | Y |
| | Parts Washer | 1C | N |
| | Portable band saw | 1C | N |
| Radius gage set | | 2C | Y |
| Screwdriver set | | 4C | Y |
| Scriber | | 6C | Y |
| Soft jaws vise | | 10C | Y |
| Solid machinist square | | 6C | Y |
| Standard tool holders | | 6C | Y |
| Starrett last word indicator set | | 6C | Y |
| | Surface finish comparison plat | 1C | Y |
| Surface gage (of sufficient size) | | 2C | Y |
| | Surface grinder with 10" and smaller diameter wheel | 3C | Y |
| | Tap and die set (standard or mm) | 2C | Y |
| Tap set, ¼-20 UNC (plug, taper, and bottom) | | 6C | Y |
| Tap set, 3/8-16UNC (plug, taper, and bottom) | | 6C | Y |
| Tap wrench | | 2C | Y |
| | Teloscoping gage set (or inside calipers) | 2C | Y |
| | Thread cutting tool holder and thread tool | 6C | Y |
| Thread form gage – 60 (center gage) | | 6C | Y |
| Tool post | | 6C | Y |
| Tool post grinder | | 2C | Y |
| | Universal three-jaw chuck and chuck key | 6C | Y |
| | Vertical band saw | 1C | Y |
| | Vertical milling machine w/accessories and tooling (table capacity of 12x36) | 6C | Y |
| Wiggler | | 2C | Y |

| Tools | Equipment | Quantity | Required |
|---------------------------------------|------------------------------|-----------------|-----------------|
| | Work bench with 2 vises | 6C | Y |
| | Wrench set (standards or mm) | 2C | Y |
| Wrench sets (compound, Allen, Aloris) | | 5C | Y |