

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
	Teloscopying 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