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Tool Kits by Job: Apprentice, Line B1 Mechanic and Structures Shop

A kit is the tools of a job, not a box: layout, holes, fasteners and forming.

Apprentice kit

Job	Item	Qty	Size	Guide
Layout	Steel rule	1	6 in (150 mm)	Layout and marking
Layout	Fine-point marker and center punch	1 each	—	Layout and marking
Layout	Caliper	1	0 to 6 in (0 to 150 mm)	Measuring tools
Hole	Air drill motor	1	1/4 in (6.4 mm) chuck	Drill motors
Hole	Drill bits	6 each	#40, #30	Drill bits
Hole	Deburring tool	1	Swivel blade	Deburring
Hole	Countersink cutter, 100°	1 each	#40 and #30 pilot	Countersink cutters
Fastener	Temporary fasteners and pliers	25 each, 1 pliers	3/32 and 1/8 in (2.4 and 3.2 mm)	Temporary fasteners
Fastener	Rivet gun	1	2X	Rivet guns
Fastener	Rivet sets, universal and flush	1 each	3/32 and 1/8 in (2.4 and 3.2 mm)	Rivet sets
Fastener	Bucking bars	2	General purpose	Bucking bars
Fastener	Rivet gauge	1	3/32 to 3/16 in (2.4 to 4.8 mm)	Inspection gauges
Fastener	Pin punch for rivet removal	1 each	3/32 and 1/8 in (2.4 and 3.2 mm)	Rivet removal
Form	Aviation snips, left, right and straight	1 each	—	Snips and shears
Form	Hand seamer	1	—	Bending brakes
Form	Side-grip clamps	6	By grip range	Clamps and vises

Line B1 mechanic kit

Job	Item	Qty	Size	Guide
Layout	Steel rule and caliper	1 each	6 in (150 mm)	Measuring tools
Layout	Inspection mirror and torch	1 each	—	Inspection gauges
Hole	Drill motor, straight and 90° angle	1 each	1/4 in (6.4 mm) chuck	Drill motors
Hole	Drill bits	6 each	#40, #30, #21	Drill bits
Hole	Deburring tool	1	Swivel blade	Deburring
Fastener	Blind rivet hand tool	1	3/32 to 3/16 in (2.4 to 4.8 mm)	Blind rivet tools
Fastener	Rivet removal set	1	3/32 to 3/16 in (2.4 to 4.8 mm)	Rivet removal
Fastener	Temporary fasteners and pliers	25 each, 1 pliers	3/32, 1/8 and 5/32 in	Temporary fasteners
Fastener	Hex keys and collar sockets	1 set	Dash -5 to -8	Threaded fastener tools
Fastener	Torque wrench, calibrated	1	In-lb range	Torque wrenches
Fastener	Safety wire pliers and wire	1	0.032 in (0.81 mm) wire	Safety wire pliers
Form	Aviation snips, left, right and straight	1 each	—	Snips and shears

Structures shop kit

Job	Item	Qty	Size	Guide
Layout	Layout and marking set	1	—	Layout and marking
Layout	Micrometer and caliper	1 each	0 to 1 in (0 to 25 mm), 0 to 6 in (0 to 150 mm)	Measuring tools
Layout	Rivet head and countersink gauges	1 set	—	Inspection gauges
Hole	Air drill motors, straight and angle	2 each	1/4 in (6.4 mm) chuck	Drill motors
Hole	Drill bits, standard and long	Full set	#40 to 1/4 in	Drill bits
Hole	Step drills and hole saws	1 set	—	Step drills, hole saws
Hole	Countersink cages and cutters, 100°	2, 1 set	#40 to 3/16 in pilots	Countersink cutters
Hole	Dimple dies	1 set	3/32 to 5/32 in (2.4 to 4.0 mm)	Dimple dies
Hole	Hole finders and edge tools	1 set	#40, #30	Hole finders
Hole	Deburring tools	1 set	—	Deburring
Fastener	Rivet guns	1 each	2X and 3X	Rivet guns
Fastener	Rivet sets, universal, flush, offset	1 set	3/32 to 3/16 in (2.4 to 4.8 mm)	Rivet sets
Fastener	Bucking bars	1 set	—	Bucking bars
Fastener	Rivet squeezer and yokes	1	—	Rivet squeezers
Fastener	Rivet cutter	1	3/32 to 3/16 in (2.4 to 4.8 mm)	Rivet cutters
Fastener	Pneumatic blind rivet tool	1	—	Blind rivet tools
Fastener	Threaded fastener tools and nutplate jigs	1 set	—	Threaded fastener tools
Fastener	Torque wrenches, calibrated	2	In-lb and ft-lb	Torque wrenches
Fastener	Temporary fasteners	100 each	3/32 to 3/16 in (2.4 to 4.8 mm)	Temporary fasteners
Form	Box and pan brake	1	—	Bending brakes
Form	Bench shear and snips	1, 1 set	—	Snips and shears
Form	Slip roll	1	—	Slip rolls
Form	Mallets, forming blocks, shrinker and stretcher	1 set	—	Hand-forming tools
Form	Bench vise with soft jaw caps and C-clamps	1, 4	—	Clamps and vises

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What to check when buying a kit

Check	What to look for
Contents	Compare line by line with the kit for your job: ready-made kits differ most in what they leave out.
Rivet sizes	Sets, drills, temporary fasteners and gauges for the same rivet sizes.
Sets and bars	Hardened, polished faces; shank to suit your rivet gun.
Case	A place for each tool, so a missing tool shows.
Air tools	Fittings and pressure to suit the shop air supply.
Torque wrenches	Calibration certificate and label with the date.

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