

## MILLWRIGHT APPRENTICE MINIMAL TOOL LIST

- All tools must be brought to each class for inspection and check-off by the instructor
- Students that fail to have the required tools will be disciplined, in accordance with the millwright rules and regulations, which may result in having an upgrade withheld until the tool requirements are met.
- **No power tools are to be bought by members, including battery operated tools.**
- All tools should be good quality and made in America, and a list provided to the contractor
- SOME JOBS MAY REQUIRE METRIC TOOLS LIKE WRENCHES, ALLEN WRENCHES AND SOCKET SETS
- RULE OF THUMB: If you NEED to borrow someone's tool today, you SHOULD purchase it for tomorrow

|     | <b>1<sup>st</sup> Period Apprentices must have the all the following tools.</b> | <b>Check Off</b> |
|-----|---|------------------|
| 1.  | Ball Peen Hammers, 1 lb. and 2 lb.  |                  |
| 2.  | Combination Wrenches Set 3/8" to 1-1/4"   |                  |
| 3.  | Gasket Scraper and Putty Knife  |                  |
| 4.  | Pliers, Needle Nose   |                  |
| 5.  | Pliers, Side Cutter   |                  |
| 6.  | Pocket Scale (Starrett #C310K-6, or equivalent)                                 |                  |
| 7.  | Pry/Pinch Bar(Small) 18"  |                  |
| 8.  | Screw Driver Set, both, Slotted, and Phillips 3 each minimum                    |                  |
| 9.  | Scribe (Carbide Tip)  |                  |
| 10. | Socket Set 1/2" with Ratchet and extensions, not to exceed 1-1/4" socket size   |                  |
| 11. | Socket Set, 3/8" Ratchet and extensions, 3/8"-7/8" socket size                  |                  |
| 12. | Tape Measure, one /6'-8'-10'-12' and one /25'-35'                               |                  |
| 13. | Tool Box (steel-with lock)  |                  |
| 14. | Torpedo Level (magnetic)  |                  |
| 15. | Utility Knife (with Blades)   |                  |

|     | <b>2<sup>nd</sup> Period Apprentices must have the all the following tools, in addition to those above.</b> | <b>Check Off</b> |
|-----|---|------------------|
| 1.  | Chalk box with Line   |                  |
| 2.  | Chisels (Cold), 1/4", 3/8", 1/2" and 3/4" sizes   |                  |
| 3.  | Drift Pins Set (approximately 3, small to large)  |                  |
| 4.  | Magnet, Mechanics (Telescoping)   |                  |
| 5.  | Tap Handle, or tap socket set   |                  |
| 6.  | Pliers, Lineman   |                  |
| 7.  | Pliers, Slip Joint (Channel Lock)   |                  |
| 8.  | Plumb Bob (with line), 8 oz.  |                  |
| 9.  | Socket Set (Deep) 1/2" Drive, 1/2" to 1-1/4" sockets  |                  |
| 10. | Vise Grip Pliers 6"   |                  |
| 11. | Sledge Hammer, 3 lb. or 4 lb.   |                  |
| 12. | Wrench, Adjustable 6" or 8"   |                  |
| 13. | Wrench, Allen Set 1/8" - 1/2"   |                  |
| 14. | Combination Square Set w/ protractor, center head (Starrett #C434-12-16R or equivalent)                     |                  |

|     | <b>3<sup>rd</sup> Period Apprentices must have the all the following tools, in addition to those above.</b> |  | <b>Check Off</b> |
|-----|---|--|------------------|
| 1.  | Center Punch (Small and Large)  |  |                  |
| 2.  | Flashlight  |  |                  |
| 3.  | Mirror, Mechanics (swivel head approximately 2" round or square)  |  |                  |
| 4.  | Snips Tin (pair not to exceed 12" length)   |  |                  |
| 5.  | Snips, Aviator set  |  |                  |
| 6.  | Tape Measure one /50'-100'  |  |                  |
| 7.  | Vise Grip Pliers "C" (#11)  |  |                  |
| 8.  | Vise Grip Pliers (curved jaw)   |  |                  |
| 9.  | Wrenches (Adjustable-one each) 10", 12"   |  |                  |
| 10. | Tool Bags/belt  |  |                  |
| 11. | <b>Dead Blow Hammer (Soft Face)</b>   |  |                  |

|    | <b>4<sup>th</sup> Period Apprentices must have the all the following tools, in addition to those above.</b> |  | <b>Check Off</b> |
|----|---|--|------------------|
| 1. | Feeler Gauge 4" length  |  |                  |
| 2. | <b>Micrometer, 0-1" outside (Starrett #T230XFL or equivalent)</b>   |  |                  |
| 3. | Test Dial Indicator <u>Kit</u> and Magnetic base (Starrett 196A1Z or equivalent)                            |  |                  |
| 4. | Tool Box (2nd, with lock for precision tools)   |  |                  |

|    | <b>5<sup>th</sup> Period Apprentices must have the all the following tools, in addition to those above.</b> |  | <b>Check Off</b> |
|----|---|--|------------------|
| 1. | <b>Flange Wizard (Pipe Wrap Small)</b>  |  |                  |
| 2. | Pliers, Snap Ring (inside and outside)  |  |                  |

|    | <b>6<sup>th</sup> Period Apprentices must have the all the following tools, in addition to those above.</b> |  | <b>Check Off</b> |
|----|---|--|------------------|
| 1. | <b>Calipers, Vernier 0-6" (Dial)</b>  |  |                  |

|    | <b>7<sup>th</sup> Period Apprentices must have the all the following tools, in addition to those above.</b> |  | <b>Check Off</b> |
|----|---|--|------------------|
| 1. | <b>Dividers 0-8" (Starrett 83 Series 83A-8 or equivalent)</b>   |  |                  |