



College of the North Atlantic

Automotive Service Technician Program Tool List (Updated for September 2020)

Required Tools List (Based upon current AST Plan of Training)

Students are restricted to one modest sized tool box. Students should be capable of carrying their toolboxes by themselves, without assistance. **No roll-around cabinets will be allowed.**

Students are required to have their own tools. Due to COVID-19, this is extremely important as it will minimize sharing of any shop tools. Students should keep their own tools in their tool boxes when not in use. Sharing tools runs the risk of contagion and increases the amount of time needed to sanitize tools and the shop.

In the kits, students are required to have the following equipment and supplies for the first shop session:

- 2 pairs coveralls (CSA 96-09, Class II, Level II, 100% cotton)
- Steel toe work boots (CSA Z195-02 approved)
- Safety eyewear (If you choose to purchase these items from an outside vendor, you must provide documentation that the items meet **CSA Z94.3**, Class I approval)
- Welding gloves
- Hearing protection (a minimum Class A or AL earplug or earmuff is necessary)
- Tool box (minimum 9x9x21 and lockable)
- Hacksaw and blades (12")
- Centre punch
- 16oz ball peen hammer
- Tire gauge
- Blow gun
- Crimping tool
- Flashlight
- Inspection mirror
- Johnson bar
- 12" channel lock pliers
- Mechanic pick set
- 12" steel ruler

- Wire brush
- Wire strippers
- Tread depth gauge (for tires and brakes)
- Utility knife
- Pliers (set which includes needle nose, combination, diagonal cutters)
- Snap Ring pliers (internal and external)
- Curved jaw vice grips (a quality set of 2)
- Screwdriver set
- 13 piece wrench set (imperial)
- 13 piece wrench set (metric)
- Socket set (1/4, 3/8, and 1/2 inch drive socket set)
- Metric hex key set (may be included in a socket set)
- Imperial hex key set (may be included in a socket set)
- Torx bit set (may be included in a socket set)
- Chisel & punch set (steel)
- Pry bar set
- Feeler gauges (flat) – standard and metric
- 6" sliding Vernier caliper (metal, with precision of 0.001") (standard and metric)
- Electrical multi-meter
- Brake spring pliers
- Brake shoe retaining spring tool
- Brake adjusting tool
- Plastic hammer
- Scraper (gasket and carbon)
- Measuring tape
- 12 volt circuit test lamp
- Flaring Kit that can do both double flares and ISO (bubble) flares
- Tap & Die set with both metric and imperial taps and dies

Recommended Tools List

Although the following equipment and supplies are not required based upon the current Plan of Training for AST, it is **recommended** that each student also have the following:

- Work gloves
- Scribe or scratch awl
- Tire valve core remover
- Spark plug gauge
- Brass punch
- 6" c-clamp
- Rubber hammer



College of the North Atlantic

Gander Campus

Hairstylist

Required Tools List

(Based upon current Hairstylist Plan of Training)

All students are required to have the following equipment and supplies for the first shop session. Kits and smocks are available at the Campus Bookstore:

Personal Protective Equipment (PPE):

- ✓ Smock
- ✓ Personal non-surgical facemask
- ✓ Safety glasses (CSA Z94.3 Class 1)

Hairstylist Kit:

- ✓ Chemical Cape
- ✓ Cutting Cape
- ✓ Bobby Pins (Box of 500)
- ✓ Spray Bottle (Water)
- ✓ Mannequin (female)
- ✓ Mannequin holder
- ✓ Round blow brush (sm, med, lg)
- ✓ Straightening Iron
- ✓ Styling Blow dry brush
- ✓ Paddle brush (large)
- ✓ Detangle comb
- ✓ Rattail comb (3)
- ✓ Taper barber comb (3)
- ✓ Foiling comb
- ✓ Electric edger
- ✓ Blow dryer
- ✓ Calculator
- ✓ Duckbill Clips (Pkg of 12)
- ✓ Jaw Clips (Pkg of 6)
- ✓ Timer
- ✓ Mannequin (male with beard)
- ✓ Vent brush
- ✓ Curling Iron (16mm. rotating handle)
- ✓ Razor (with blades)
- ✓ Styling nylon bristle brush
- ✓ Styling/teasing comb
- ✓ Haircutting/wave comb
- ✓ Butch comb
- ✓ Bone/curling iron comb
- ✓ Scissors – cutting and texturizing (5" and ¾" thinning shears)
- ✓ Electric clipper

Recommended Tools List

Although the following equipment and supplies are not required based upon the current Plan of Training for Hairstylist, it is **recommended** that each student also have the following:

- ✓ Orthopedic health shoes
- ✓ Black pants

College of the North Atlantic
Gander Campus
Aircraft Maintenance Engineering

Tool List

Basic tools are required by all students to complete shop projects.

If a student does not have tools to work with then they will not be able to participate in shop projects and will not be able to receive credit for the course.

Each student is restricted to one modest sized toolbox. The student should be capable of carrying it by themselves, without assistance. **No roll around cabinets will be allowed.**

The following Personal Protective Equipment items are required right from the start of classes.

Coveralls - highest cotton content possible **dark blue color is mandatory**

Steel nose Safety boots (above ankle) - CSA Z195.2

Safety glasses – CSA Z94.3

Students should plan to have the following tools by the end of the first month of class.

Any tool specifications listed are meant to be used as a guide and not preclude the purchase of other suitable tools. Any suggestions regarding a tools suitability can be addressed by the program instructors.

Each Student is required to have their own Half Face, Negative Pressure, Air Purifying Respirator with two sets of filters. We require one filter set to be an Organic Vapor / Multi Gas / Vapor/ P100 (3M p/n 60926 or equivalent).

Respirator & Fit Test (3M mask is mandatory) and required. The fee for the fit test at the Campus only is \$35 CAD and will be scheduled within 30 days of the program start. Gear & tests required outside the 30 day time frame will not be supplied by CNA. When purchasing a 3M respirator a “Fit Test” is required to ensure that the correct size is purchased. We recommend that the purchase be made from CNA in the 30-day time frame referenced above. Outside suppliers will need to be used after this time frame and students will be responsible for arranging this if the CNA offer is not exercised.

Ball Peen Hammer (8-12oz.)

Measuring Tape, 10 or 12 foot would suffice

Duckbill pliers - Designed for aviation lock wiring

Side cutters - 6" long, 3/4" jaws

3/8" drive socket set, consisting of:

Ratchet - fine tooth action

Breaker bar

Extensions - quantity 3, one 3 inch, one 6 inch & one 12" inch long extension

Universal joint

Shallow Sockets - 12 point - Sizes: 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16 & 7/8

1/4 drive socket set, consisting of:

Ratchet - fine tooth action

Breaker bar

Extensions - quantity 2, one 2 inch and one 6 inch long extensions

Universal Joint

Deep Sockets - 12 point - Sizes: 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16 and 1/2 inch

Combination wrenches - 12 point on box end; Sizes: 1/4, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16 and 7/8 inch

Ignition wrench set - combination, 12 point

Screwdrivers - Flat tip, shank lengths: 1 1/2", 6" and 10"

- Philips - No. 2 tip, shank lengths: 1 1/2" and 6", 10" required for avionics install work.

- No. 1 tip, shank length: 4" and 10" required for avionics install work.

Note: A magnetic multi tip screwdriver with the required tips may be substituted for the above.

Needle nose pliers

Small 4 to 6 inch diagonal flush cutters

Feeler gauge set - 35 blades (.0015" to .035" in .001" increments)

Pocket steel rule - 6" long, graduations in 10ths and 100ths of an inch on one side of the scale and 32nds and 64ths on the opposite side.

Steel Rule - 12" long machinist scale that measures in 10ths and 100ths of an inch on one side of the scale and 32nds and 64ths on the opposite side.

Pin punch set - 1/16, 1/8, 3/32, 5/32, 3/16 and 1/4" diameter, each approx. 4 3/4" long

Tapered punch - 3/8" point, 9 1/2" long

Center punch - 1/8" point, 9 1/2" long

Soft drift (brass) - 3/8"

Soft face hammer - 2 lb.

Utility knife

Jeweler's screwdriver set

Allen key set - sizes: 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8 and 7/16"

Note: Must be separate keys, not all attached to one ring.

Rectangular inspection mirror - approx. 2" x 3" with telescoping handle

Magnetic pick-up tool - telescoping handle

Magnifying glass - 10X

Automatic center punch - adjustable, high - low impact

x-acto knife kit - with spare blades

Flashlight - heavy duty, explosion proof (maglight preferable)

Ultra-fine point permanent markers – Sharpie or similar, Quantity 6

Standard Math compass set. (Protractor, compass, triangle, ruler, ect.)

NOTES:

Please buy good quality tools that have a lifetime warranty. You can get good quality tools at a very reasonable price if you shop around. Some suggestions for good quality - lower priced tools:

Mastercraft Professional or Maxim series (Canadian Tire)

Craftsman

Challenger

Grey

Proto

Budget \$2,500 for tools and personal protective equipment.

College of the North Atlantic
Gander Campus
Aircraft Structural Repair Technician

Tool List

Basic tools are required by all students to complete shop projects.

If a student does not have tools to work with then they will not be able to participate in shop projects and will not be able to receive credit for the course.

Each student is restricted to one modest sized tool box. The student should be capable of carrying it by themselves, without assistance. **No roll around cabinets will be allowed.**

The following items are required right at the start of classes.

Coveralls - highest cotton content possible **dark blue color is mandatory**
Steel nose Safety boots (above ankle) - CSA Z195.2
Safety glasses - CSA Z94.3

Any tool specifications listed are meant to be used as a guide and not preclude the purchase of other suitable tools. Any suggestions regarding a tools suitability can be addressed by the program instructors.

Students should plan to have the following tools by the end of the first month of class.

Each Student is required to have their own Half Face, Negative Pressure, Air Purifying Respirator with two sets of filters. We require one filter set to be an Organic Vapor / Multi Gas / Vapor/ P100 (3M p/n 60926 or equivalent).

Respirator & Fit Test (3M mask is mandatory) and required. The fee for the fit test at the Campus only is \$35 CAD and will be scheduled within 30 days of the program start. Gear & tests required outside the 30 day time frame will not be supplied by CNA. When purchasing a 3M respirator a "Fit Test" is required to ensure that the correct size is purchased. We recommend that the purchase be made from CNA in the 30-day time frame referenced above. Outside suppliers will need to be used after this time frame and students will be responsible for arranging this if the CNA offer is not exercised.

Ball Peen Hammer (8-12oz.)

Steel Rule - 12" long machinist scale that measures in 10ths and 100ths of an inch on one side of the scale and 32nds and 64ths on the opposite side.

Combination Square

1/4 drive socket set, consisting of:

- Ratchet - fine tooth gear mechanism

Breaker bar

Extensions - quantity 2, a 2" inch & a 6" inch long extension

a 1/4 drive universal joint

sockets may be standard or deep (6 or 12 point) in the following sizes: 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16 and 1/2"

Combination wrenches

- 12 point box end; Sizes: 1/4, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16 and 7/8"

Screwdrivers - Flat tip, shank lengths: 1 1/2", 6" and 10"

- Philips - No. 2 tip, shank lengths: 1 1/2" and 6"

- No. 2 tip, shank length: 4"

Note: A magnetic multi tip screwdriver with the required tips may be substituted for the above.

Pin punch set - 1/16, 3/32, 1/8, 5/32, 3/16 and 1/4" diameter

Center punch - 1/8" point, 6" long

Automatic center punch - adjustable, high - low impact

Measuring Tape

Ultra-fine point permanent markers – Sharpie or similar, Quantity 6

Allen key set - sizes: 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8 and 7/16"

Needle nose pliers

Duck bill pliers

Side cutters - 6" long, 3/4" jaws

Pocket steel rule - 6" long, graduations in 10ths and 100ths of an inch on one side of the scale and 32nds and 64ths on the opposite side.

Chisels, qty. 2 small size - one flat 3/8" wide, one flat 1/4" wide, 5" - 6" long.

Rectangular inspection mirror - approximately 2" x 3" with telescoping handle

Magnifying glass - 10X

Exacto knife kit - with spare blades

Flashlight - heavy duty, explosion proof (maglight preferable)

Standard Math compass set (protractor, compass, triangle ruler, etc.)

Please buy good quality tools that have a lifetime warranty. You can get good quality tools at a very reasonable price if you shop around. Some suggestions for good quality - lower priced tools:

Mastercraft Professional or Maxim series (Canadian Tire)

Craftsman

Challenger

Grey

Proto

Budget \$2,000 for personal protective equipment and standard hand tools

Specialty Tools

Students should plan to have all tools on this list by the end of the first month of class.

Do not attempt to purchase until after commencing the program and consulting with your instructor.

Note: Specialty tools are required in order to complete sheet metal projects and would also be required by most employers after graduation. Anticipate a cost of approximately \$1,000.00 for specialty tools.

If a student does not have tools to work with then they will not be able to participate in shop projects and will not be able to receive credit for the course.

Rivet gun - US 3X complete with regulator and retainer springs (quick change spring)

Pistol grip air drill, complete with regulator 1/4 Palm Drill

Cleco pliers

Cleco's - 10 each of the following sizes: 3/32", 1/8", 5/32" and 3/16"

4pc. Drill stop kit - (3/32, 1/8, 5/32 and 3/16)

Micro stop countersink, c/w cutters - (3/32, 1/8, 5/32 & 3/16")

Scriber

Rivet sets - straight qty. 4 - (3/32, 1/8, 5/32 & 3/16")

Rivet Set - flush, qty. 1

Bucking bar kit

Anticipate a cost of approximately \$1,000.00 for specialty tools.

Total cost for all required tools will be in the \$3,000 range.