

Motorcycle Required Materials and Tools

Required Uniform



Head	Safety glasses/goggles
Top	Advanced Transportation and Manufacturing shop shirt quantity: 3-5
Bottom	black pants
Footwear	closed toe, closed heel, slip resistant, and oil resistant shoes/boots

Required Textbooks

- ISBN: 978-1566374798 | Motorcycles: Fundamentals, Service, Repair (1999)
 ISBN: 978-0133994612 | Automotive Technology, Principles, Diagnosis & Service, 5th edition (2015)

Recommended

Laptop or tablet

Specialty Tools | Required Courses

MCYCMEK 210 | Motorcycle Fuel Induction and Pollution Control

ITEM	ITEM DETAIL
<input type="checkbox"/> Adjustable wrench (crescent wrench)	14" or larger flat feeler gauges (.002" on minimum size)
<input type="checkbox"/> Air gun	
<input type="checkbox"/> Ball peen hammer	
<input type="checkbox"/> Combination wrenches (open end)	Sizes: 8-15 mm, 17 mm, & 19 mm 12 pt. box
<input type="checkbox"/> Diagonal cutters	
<input type="checkbox"/> Extensions	3/8" drive Sizes: 3" & 6"
<input type="checkbox"/> Flashlight	
<input type="checkbox"/> Golf tees	
<input type="checkbox"/> Hand impact driver with bits (3/8 drive preferable)	
<input type="checkbox"/> Hex keys (Allen wrenches)	Sizes: 2- 8mm, 10mm, & 12mm
<input type="checkbox"/> Locking pliers (vise grips)	
<input type="checkbox"/> Needle nose pliers	
<input type="checkbox"/> Plastic freezer bags	
<input type="checkbox"/> Ratchet	3/8" drive
<input type="checkbox"/> Screwdrivers	Sizes: various flat blade
<input type="checkbox"/> Screwdrivers	Sizes: Phillip's # 1, #2 (various lengths), & #3
<input type="checkbox"/> Sockets set	3/8" drive Sizes: 8-15mm, 17mm, & 19mm 6 point
<input type="checkbox"/> Spark plug gauges	
<input type="checkbox"/> Spark plug sockets	3/8" drive Sizes: 13/16" & 18 mm
<input type="checkbox"/> Tire inflator	
<input type="checkbox"/> Tire pressure gauge	
<input type="checkbox"/> Tongue and groove pliers (Channel-Locks)	Size: 12"
<input type="checkbox"/> Tool Box, Lockable	

MCYCMEK 212 | Motorcycle Tune-up and Chassis Maintenance

ITEM	ITEM DETAIL
<input type="checkbox"/> Air impact wrench with metric sockets	
<input type="checkbox"/> Auxiliary fuel tank	
<input type="checkbox"/> Chain breaker/riveter set	
<input type="checkbox"/> Dead blow hammer	
<input type="checkbox"/> Die grinder	
<input type="checkbox"/> Motorcycle vacuum gauges	
<input type="checkbox"/> Punches, chisels	
<input type="checkbox"/> Socket mounted Allen wrenches	
<input type="checkbox"/> Soft drifts	brass and aluminum
<input type="checkbox"/> Torque wrench	
<input type="checkbox"/> X-ACTO knife	

MCYCMEK 214 | Motorcycle Electrical Principles and Repair

TOOL	TOOL DETAIL
<input type="checkbox"/> Analog multimeter	
<input type="checkbox"/> Deep sockets	3/8" drive Sizes: 8-15mm, 17mm, & 19mm 6 point
<input type="checkbox"/> Digital multimeter	
<input type="checkbox"/> Inductive tachometer	
<input type="checkbox"/> Inductive timing light	
<input type="checkbox"/> Nitrite gloves	
<input type="checkbox"/> Soldering gun	
<input type="checkbox"/> Soldering wire	60/40 rosin core for electrical
<input type="checkbox"/> Test leads	
<input type="checkbox"/> Thread repair kit (Time-Sert style)	Size: 6 X 1.0mm
<input type="checkbox"/> Wrist pin extractor	

MCYCMEK 216 | Motorcycle Engine Overhaul and Diagnosis

TOOL	TOOL DETAIL
<input type="checkbox"/> Calipers	
<input type="checkbox"/> Micrometers	
<input type="checkbox"/> Oversize/undersize sockets	Sizes: up to 36mm
<input type="checkbox"/> Oversize/undersize wrenches	Sizes: up to 36mm
<input type="checkbox"/> Specialty rotor pullers	
<input type="checkbox"/> Tools specific to certain models	

Specialty Tools | Major Elective Courses

AUTORTK 122 | Electrical/Electronic Systems Theory, Inspection & Repair

TOOL	TOOL DETAIL
<input type="checkbox"/> 12 volt test light	
<input type="checkbox"/> 16 gauge Jumper wires with alligator clips	quantity: 8 Min. length: 3 Feet
<input type="checkbox"/> Wire crimpers/wire stripper	MAC tool #TCT 2000 or equivalent
<input type="checkbox"/> Check Major Elective General List PART 1 for additional tools	See column 122

AUTORTK 123 | Fuel & Emissions Systems Theory, Inspection & Repair

TOOL	TOOL DETAIL
<input type="checkbox"/> Check Major Elective General List PART 1 for additional tools	See column 123

AUTORTK 135 | Computer Control and Fuel Injection Heating and Air

TOOL	TOOL DETAIL
<input type="checkbox"/> Back Probe Pins	quantity: 4
<input type="checkbox"/> PCM scanner	
<input type="checkbox"/> Check Major Elective General List PART 1 for additional tools	See column 135

Major Elective General Tools

PART 1 | Tools used in multiple courses

TOOL	TOOL DETAIL	course numbers		
		122	123	135
<input type="checkbox"/> Cylinder leak down tester / cylinder compression tester			X	
<input type="checkbox"/> Digital Volt - Ohm - Meter (DVOM)		X	X	X
<input type="checkbox"/> Flashlight	Telescoping gauge			X
<input type="checkbox"/> Hand vacuum pump kit with gauge	MityVac #4000		X	
<input type="checkbox"/> Heavy-duty remote starter switch	MAC# SS25 or equivalent	X	X	

PART 2 | Tools used in all Major Elective Courses

TOOL	TOOL DETAIL
<input type="checkbox"/> Adjustable pliers	Size: 9" (<i>Channel-Lock™</i>)
<input type="checkbox"/> Adjustable wrench	Size: 10"
<input type="checkbox"/> Ball peen hammer	Size: 24 ounce
<input type="checkbox"/> Bar, rolling head	Size: 18"
<input type="checkbox"/> Caliper (dial/digital optional)	Size: 6"
<input type="checkbox"/> Center punch	Size: 1/2" X 4 1/2"
<input type="checkbox"/> Cold chisel	Size: 5/8" cut
<input type="checkbox"/> Combination wrench set	Sizes: 1/4" to 1"
<input type="checkbox"/> Combination wrench set	Sizes: 6 mm to 19 mm
<input type="checkbox"/> Common pliers	Size: 6"
<input type="checkbox"/> Diagonal cutting pliers	Size: 7"
<input type="checkbox"/> Feeler gauge set	Sizes: .0015" to .035" (MAC # FG002 or equivalent)
<input type="checkbox"/> Feeler gauge set	Sizes: .038mm to .889mm (MAC # FG002 or equivalent)
<input type="checkbox"/> File handles (2 each)	
<input type="checkbox"/> Gasket scraper	
<input type="checkbox"/> Hacksaw	
<input type="checkbox"/> Hacksaw blades	Sizes: 18 tooth & 32 tooth
<input type="checkbox"/> Metric socket set	1/4" drive Sizes: 5 mm to 14 mm (6 point)
<input type="checkbox"/> Metric socket set	3/8" drive Sizes: 6 mm to 19 mm (6 point)
<input type="checkbox"/> Metric socket set	1/2" drive Sizes: 10 mm to 27 mm (6 point)
<input type="checkbox"/> Mill file	Size: 11 1/2"
<input type="checkbox"/> Needle nose pliers	Size: 6"
<input type="checkbox"/> Nylon parts cleaning brush	
<input type="checkbox"/> Pin punch set	
<input type="checkbox"/> Screwdriver	Size: 4" flat blade
<input type="checkbox"/> Screwdriver	Size: 6" flat blade
<input type="checkbox"/> Screwdriver	Size: 8" flat blade
<input type="checkbox"/> Screwdriver	Size: 12" flat blade
<input type="checkbox"/> Screwdriver	Size: 4" Phillips #1
<input type="checkbox"/> Screwdriver	Size: 4" Phillips #2
<input type="checkbox"/> Socket adapter	Sizes: 3/8" drive to 1/2" drive
<input type="checkbox"/> Socket adapter	Sizes: 1/2" drive to 3/8" drive
<input type="checkbox"/> Socket adapter	Sizes: 1/4" drive to 3/8" drive
<input type="checkbox"/> Soft face hammer	Size: 24 ounce
<input type="checkbox"/> Spark plug gap gauge, wire type	
<input type="checkbox"/> Spark plug sockets	3/8" drive Sizes: 5/8" & 13/16"
<input type="checkbox"/> Steel rule	Size: 6" with cross bar (combination inches & metric)
<input type="checkbox"/> Toolbox or rollaway cart w/secure lock	
<input type="checkbox"/> Trigger type oil can	
<input type="checkbox"/> Vise Grip™ pliers set	