

	A	B	C	D
1	TRANSPORTATION CLUSTER AUTO SERVICE TECHNOLOGY EQUIPMENT LIST	ONLY use MLR, Ast, or MST		
2	Automotive Equipment List-Hand Tools	Suggested Quantity	Estimated Cost Each	Estimated Total Cost
3	Air Blow Gun (meeting OSHA requirements)	3	9.19	27.57
4	Allen (Wrench or Socket) Set - Standard (.050" - 3/8")	1	12.15	12.15
5	Allen (Wrench or Socket) Set - Metric (2mm - 7mm, 10mm, 12	2	24.67	49.34
6	Battery Post Cleaner	1	6.30	6.30
7	Battery Terminal Pliers	1	14.61	14.61
8	Battery Terminal Puller	1	14.55	14.55
9	Chisels:			
10	Cape 5/16"	1	15.83	15.83
11	Cold 3/8", 3/4"	1	33.56	33.56
12	Chisel Holder	1	20.63	20.63
13	Claw Type Pickup Tool	1	5.32	5.32
14	Combination Wrenches:			
15	Standard (1/4" - 1 1/4")	1	336.20	336.20
16	Metric (7mm - 24mm)	1	270.74	270.74
17	Crowfoot Wrench Set - Metric	1	106.76	106.76
18	Crowfoot Wrench Set - Standard	1	84.11	84.11
19	Ear Protection	1	20.21	20.21
20	Feeler Gauge (Blade Type):			
21	.002" - .040"	1	4.95	4.95
22	.006mm - .070mm	1	5.48	5.48
23	Files:	1	15.00	15.00
24	Coarse 6" and 12"	1	3.97	3.97
25	Fine 6" and 12"	1	9.75	9.75
26	Half Round 12"	1	16.13	16.13
27	Round 6" and 12"	1	4.73	4.73
28	Flare Nut (tubing) Wrenches:			
29	3/8" - 3/4"	1	110.21	110.21
30	10mm - 17mm	1	141.49	141.49
31	Flashlight	1	9.71	9.71

	A	B	C	D
32	Fuse Puller	2	2.29	4.58
33	Fused Jumper Wire Set (with various adapters)	1	56.21	56.21
34	Hack Saw	1	20.55	20.55
35	Hammers:			
36	16 oz. Ball Peen	1	13.76	13.76
37	Brass	1	41.21	41.21
38	Dead Blow Plastic Mallet	1	21.38	21.38
39	Plastic Tip	1	32.21	32.21
40	Rubber Mallet	1	12.49	12.49
41	Inspection Mirror	1	6.07	6.07
42	Magnetic Pickup Tool	1	6.86	6.86
43	Pliers:			
44	Combination 6"	1	16.60	16.60
45	Hose Clamp	1	12.05	12.05
46	Locking Jaw	1	10.86	10.86
47	Needle Nose 6"	1	24.67	24.67
48	Side Cutting	1	18.90	18.90
49	Slip Joint (Water Pump)	1	17.71	17.71
50	Pry Bars:			
51	Rolling Head	1	26.21	26.21
52	Straight	1	27.56	27.56
53	Punches:			
54	Center	1	11.63	11.63
55	Brass Drift	1	17.40	17.40
56	Pin 1/8", 3/16", 1/4", 5/16 "	1	39.45	39.45
57	Taper 3/8", 1/2", 5/8"	1	32.62	32.62
58	Safety Glasses (meeting OSHA requirements)	1	8.21	8.21
59	Scraper:			
60	Carbon 1"	1	5.39	5.39
61	Gasket 1"	1	6.79	6.79
62	Screwdriver - Blade Type:			
63	Stubby	1	8.20	8.20
64	6", 9", 12"	1	56.04	56.04
65	Offset	1	7.26	7.26
66	Screwdriver - Phillips:			
67	Stubby #1, #2	1	16.00	16.00

	A	B	C	D
68	6" #1, #2	1	22.97	22.97
69	12" #3	1	17.23	17.23
70	Offset #2	1	4.09	4.09
71	Screwdriver - Impact Driver Set	1	124.13	124.13
72	Screw Starter:			
73	Phillips	1	5.72	5.72
74	Standard	1	7.34	7.34
75	Socket Set - 1/4" Drive:			
76	1/4" - 1/2" Standard Depth	1	54.94	54.94
77	1/4" - 1/2" Deep	1	87.75	87.75
78	6mm - 12mm Standard Depth	1	82.50	82.50
79	6mm - 12mm Deep	1	120.75	120.75
80	Flex/Universal Type	1	21.60	21.60
81	3", 6" Extensions	1	9.64	9.64
82	Ratchet	1	32.63	32.63
83	Socket Set - 3/8" Drive:			
84	5/16" - 3/4" Standard Depth (6 point)	1	78.38	78.38
85	3/8" - 3/4" Deep (6 point)	1	120.26	120.26
86	10mm - 19mm Standard Depth	1	83.21	83.21
87	10mm - 19mm Deep	1	125.85	125.85
88	3", 5", 10" Extensions	1	67.40	67.40
89	Flexhead Ratchet	1	67.51	67.51
90	Ratchet	1	46.28	46.28
91	Spark Plug Sockets 5/8", 13/16"	1	61.20	61.20
92	Speed Handle	1	23.33	23.33
93	Universal Joint	1	23.51	23.51
94	Flexible Socket Set 3/8" - 3/4"	1	167.52	167.52
95	Flexible Socket Set 10mm - 19mm	1	237.79	237.79
96	Socket Set - 1/2" Drive:			
97	7/16" - 1 1/8" Standard Depth	1	135.41	135.41
98	7/16" - 1 1/8" Deep	1	223.54	223.54
99	10mm - 24mm Standard Depth	1	189.08	189.08
100	10mm - 24mm Deep	1	211.13	211.13
101	3", 6", 12" Extensions	1	58.43	58.43
102	Flex Handle (Breaker Bar)	1	53.35	53.35
103	Ratchet	1	72.29	72.29

	A	B	C	D
104	Spark Plug Feeler Gauge (Gap Tool)	2	3.41	6.82
105	Tape Measure – Standard and Metric	1	6.86	6.86
106	Test Light (12V)	2	32.21	64.42
107	Tire Pressure Gauge	1	4.13	4.13
108	Torque Wrench:			
109	3/8" Drive (10 - 250 lb. in.)	1	154.53	154.53
110	3/8" Drive (5 - 75 lb. ft.)	1	139.09	139.09
111	1/2" Drive (50 - 250 lb. ft.)	1	160.42	160.42
112	Torx Set (screwdrivers and/or sockets):	1	25.00	25.00
113	T-8 to T-60	1	179.29	179.29
114	Wire Brush	1	3.82	3.82
115				
116	Total			5,299.31
117				
118	Automotive Equipment List-General Lab Tools	Suggested Quantity	Estimated Cost Each	Estimated Total Cost
119	Air Chisel Set (various bits)	1	355.42	355.42
120	Air Compressor and Hoses	1	3,413.66	3,413.66
121	Air Pressure Regulator	4	54.82	219.28
122	Air Ratchet (3/8" drive)	2	239.96	479.92
123	Automotive Stethoscope (electronic recommended)	2	47.96	95.92
124	Axle Stands (Jack Stands)	4	82.46	329.84
125	Axle Support Stands (Screw Jacks)	2	40.00	80.00
126	Battery Charger	1	341.25	341.25
127	Battery/Starter/Charging System Tester	1	1,752.00	1,752.00
128	Bearing Packer (hand operated)	2	28.46	56.92
129	Belt Tension Gauge	1	94.52	94.52
130	Bench or Pedestal Grinder	1	431.17	431.17
131	Coolant/Combustion Gas Detector (Recommended)	1	36.71	36.71
132	Coolant Tester	1	116.21	116.21
133	Cooling System Pressure Tester and Adapters	1	37.46	37.46
134	Creeper	3	56.21	168.63
135	Cylinder Leakage Tester	1	216.00	216.00
136	Dial Indicator with Flex Arm and Clamp Base	1	224.96	224.96
137	Digital Multimeter with various lead sets	2	154.46	308.92
138	Drain Pans	3	292.46	877.38

	A	B	C	D
139	Drill - 3/8" variable speed, reversible	1	115.46	115.46
140	Drill - 1/2" variable speed, reversible	1	182.96	182.96
141	Electric Heat Gun	1	78.00	78.00
142	Engine Coolant Recovery Equipment or Recycler	1	1,644.00	1,644.00
143	Extension Cords	5	23.14	115.70
144	Face Shields	3	17.96	53.88
145	Fender Covers	8	16.46	131.68
146	Floor Jack (1½ Ton Minimum)	3	419.25	1,257.75
147	Hand Held Vacuum Pump	1	74.96	74.96
148	Hoist(s)	1	5,975.08	5,975.08
149	Hood Prop	1	22.43	22.43
150	Hydraulic Press with adapters	1	1,267.20	1,267.20
151	Impact Socket Sets - 3/8" Drive (Standard and Metric)	1	81.00	81.00
152	Impact Sockets - 1/2" Drive (7/16" - 1 1/8")	1	81.71	81.71
153	Impact Sockets - 1/2" Drive (12mm - 24mm)	1	129.90	129.90
154	Impact Sockets - 1/2" Drive Deep (30 mm, 32 mm, 36mm)	1	15.23	15.23
155	Impact Wrench - 1/2" Drive	1	256.46	256.46
156	Impact Wrench - 3/8" Drive	1	236.21	236.21
157	Jumper Cables	1	62.96	62.96
158	Master Puller Set	1	1,912.84	1,912.84
159	Micrometer (Depth)	1	138.71	138.71
160	Micrometers - 0-1", 1-2", 2-3", 3-4", 4-5" (Outside Type)	1	592.46	592.46
161	Oil Can - Pump Type	1	6.49	6.49
162	Oil Filter Wrench	1	24.69	24.69
163	Oxy-Acetylene Torch	1	374.25	374.25
164	Parts Cleaning Tank and Gloves	1	1,541.44	1,541.44
165	Remote Starter Switch	2	54.00	108.00
166	Scan Tool (OBDII w/Can Capability) or personal computer equivalent interface capability	1	1,722.00	1,722.00
167	Screw Extractor Set	1	37.03	37.03
168	Seat Covers	5	29.96	149.80
169	Serpentine Belt Tensioner Tools	1	77.83	77.83
170	Snap Ring Pliers Set - external	1	118.57	118.57
171	Snap Ring Pliers Set - internal	1	118.57	118.57
172	Soldering Gun	1	50.96	50.96
173	Soldering Iron (Pencil Tip)	1	17.29	17.29

	A	B	C	D
174	Spark Plug Boot Puller	1	11.02	11.02
175	Tap and Die Set - Standard	1	134.13	134.13
176	Tap and Die Set - Metric	1	146.46	146.46
177	Temperature Sensing Device	1	73.46	73.46
178	Thread Repair Insert Kit	1	236.69	236.69
179	Tire Inflator Chuck	1	2.21	2.21
180	Trouble/Work Lights (Fluorescent Preferred)	5	50.21	251.05
181	Tube Quick Disconnect Tool Set	2	12.71	25.42
182	Tubing Bender	1	27.15	27.15
183	Tubing Cutter/Flaring Set (Double-lap and ISO)	1	80.21	80.21
184	Twist Drill Set - 1/64" - 1/2"	1	115.13	115.13
185	Ultra Violet Leak Detection Device (Black Light)	1	74.96	74.96
186	Used Oil Receptacle with extension neck and funnel	1	292.46	292.46
187	Valve Core Removing Tool	1	7.46	7.46
188	Vernier Calipers:			
189	0 - 6"	1	52.46	52.46
190	0 - 125mm	1	52.46	52.46
191	Wheel Chocks	1	142.46	142.46
192	Workbenches with vises	6	399.81	2,398.86
193		1 per 4 students		
194	Total			32,533.72
195				
196	Automotive Equipment-Specialty Tools MLR ONLY	Suggested Quantity	Estimated Cost Each	Estimated Total Cost
197	SUSPENSION & STEERING			
198	Brake Pedal Depressor	1	60.19	60.19
199	Hand Grease Gun	1	32.21	32.21
200	Shock Absorber Tools	1	100.00	100.00
201	Tire Mounting Machine (rim clamp type)	1	4,692.76	4,692.76
202	Tire Patching Tools and Supplies	1	477.00	477.00
203	Wheel Balancer - Electronic Type	1	3,307.64	3,307.64
204	Wheel Weight Pliers	1	54.71	54.71
205				
206	BRAKES			
207	Bearing Seal and Race Driver Set	1	41.42	41.42
208	Brake Bleeder, Pressure or Vacuum	1	389.96	389.96

	A	B	C	D
209	Brake Disc Micrometer	1	101.21	101.21
210	Brake Drum Micrometer and Calibration Equipment	1	123.71	123.71
211	Brake Lathe (bench with disc and drum service attachments)	1	8,204.00	8,204.00
212	Brake Lathe (on car)	1	9,000.00	9,000.00
213	Brake Shoe Adjusting Gauge	1	30.00	30.00
214	Brake Spring Remover/Installer	1	146.99	146.99
215	Brake Spring Pliers	1	50.68	50.68
216	Brake Spoon	1	15.34	15.34
217	Piston Retraction Set	1	42.83	42.83
218				
219				
220	ENGINE PERFORMANCE			
221	Compression Tester	1	177.77	177.77
222	Cylinder Power Balance Tester	1	188.77	188.77
223	Infrared Thermometer (or appropriate substitution)	1	177.00	177.00
224	Vacuum/Pressure Gauge	1	74.96	74.96
225				
226	ELECTRICAL/ELECTRONIC SYSTEMS			
227	Connector Pick Tool Set	1	24.00	24.00
228	Door Panel Trim Tool(s)	1	127.24	127.24
229	Headlight Aimer or Screen	1	329.96	329.96
230	Heat Gun (or equivalent for heat shrinking operations)	1	177.00	177.00
231	Wire and Terminal Repair Kit	1	72.52	72.52
232				
233				
234	Manual Drive Train and Axles			
235	Axle Nut Socket set (or equivalent)	1	68.21	68.21
236	Universal Joint Tools	1	104.99	104.99
237				
238	Engine Repair			
239	Antifreeze/Coolant Tester	1	19.97	19.97
240				
241				

	A	B	C	D
242	OPTIONAL: Trainers, CNC Systems, and Simulators that enhance student learning, raise student achievement, meet industry standards, and have SDE approval.			
243				
244	Total			28,413.04
245				
246	Automotive Equipment-Specialty Tools AST ONLY	Suggested Quantity	Estimated Cost Each	Estimated Total Cost
247	SUSPENSION & STEERING			
248	Ball Joint Press and other Special Tools	1	526.69	526.69
249	Brake Pedal Depressor	1	60.19	60.19
250	Bushing Driver Set	1	37.45	37.45
251	Coil Spring Compressor Tool	1	25.42	25.42
252	Chassis Ear (recommended)	1	47.95	47.95
253	Hand Grease Gun	1	32.21	32.21
254	Inner Tie Rod End Tool	1	59.63	59.63
255	Pitman Arm Puller	1	67.46	67.46
256	Power Steering Pump Pulley Special Tool Set	1	121.88	121.88
257	Shock Absorber Tools	1	100.00	100.00
258	Strut Spring Compressor Tool	1	782.10	782.10
259	Steering Column Special Tool Set	1	57.68	57.68
260	Tie Rod Puller	1	79.51	79.51
261	Tire Mounting Machine (rim clamp type)	1	4,692.76	4,692.76
262	Tire Patching Tools and Supplies	1	477.00	477.00
263	Wheel Alignment Equipment	1	13,500.00	13,500.00
264	Wheel Balancer - Electronic Type	1	3,307.64	3,307.64
265	Wheel Weight Pliers	1	54.71	54.71
266				
267	BRAKES			
268	Bearing Seal and Race Driver Set	1	41.42	41.42
269	Brake Bleeder, Pressure or Vacuum	1	389.96	389.96
270	Brake Disc Micrometer	1	101.21	101.21
271	Brake Drum Micrometer and Calibration Equipment	1	123.71	123.71
272	Brake Lathe (bench with disc and drum service attachments)	1	8,204.00	8,204.00
273	Brake Lathe (on car)	1	9,000.00	9,000.00
274	Brake Shoe Adjusting Gauge	1	30.00	30.00

	A	B	C	D
275	Brake Spring Remover/Installer	1	146.99	146.99
276	Brake Spring Pliers	1	50.68	50.68
277	Brake Spoon	1	15.34	15.34
278	Piston Retraction Set	1	42.83	42.83
279				
280				
281	HEATING AND AIR CONDITIONING			
282	A/C Compressor Clutch Service Tools	1	29.49	29.49
283	A/C Service Port Adapter Set	1	15.18	15.18
284	Dye Injector	1	129.95	129.95
285	Hygrometer	1	78.88	78.88
286	Leak Detector (SAE Standard)	1	126.42	126.42
287	Manifold Gauge Set or equivalent (HFC-134a)	1	163.13	163.13
288	Refrigerant Charging Station (HFC-134a)	1	4,185.76	4,185.76
289	Refrigerant Identification Equipment	1	742.95	742.95
290	Refrigerant Recovery/Recycling Machine (HFC-134a)	1	838.86	838.86
291	Thermometer	1	7.74	7.74
292				
293				
294	ENGINE PERFORMANCE			
295	Cylinder Power Balance Tester	1	188.77	188.77
296	Fuel Injection Pressure Gauge Sets with Adapters	1	600.00	600.00
297	Infrared Thermometer (or appropriate substitution)	1	177.00	177.00
298	Oxygen Sensor Socket	1	108.38	108.38
299	Pinch-off Pliers	1	21.20	21.20
300	Sending Unit Socket(s)	1	76.20	76.20
301	Spark Plug Thread Tap	1	38.50	38.50
302	Spark Tester	1	8.48	8.48
303	Timing Advance Light	1	348.00	348.00
304	Vacuum/Pressure Gauge	1	74.96	74.96
305				
306	Automatic Transmission/Transaxle			
307	Transmission Jack (s)	1	273.51	273.51
308	Transmission /Transaxle Flushing Equipment (recommended)	1	909.99	909.99
309	Transmission/Transaxle Removal and Installation Equipment	1	1,122.77	1,122.77
310	Transmission/Transaxle Holding Fixtures	1	296.08	296.08

	A	B	C	D
311				
312	ELECTRICAL/ELECTRONIC SYSTEMS			
313	Connector Pick Tool Set	1	24.00	24.00
314	Door Panel Trim Tool(s)	1	127.24	127.24
315	Headlight Aimer or Screen	1	329.96	329.96
316	Heat Gun (or equivalent for heat shrinking operations)	1	177.00	177.00
317	Wire and Terminal Repair Kit	1	72.52	72.52
318				
319				
320	Manual Drive Train and Axles			
321	Axle Nut Socket set (or equivalent)	1	68.21	68.21
322	Clutch Alignment set	1	37.70	37.70
323	Clutch Pilot Bearing/Bushing Puller/Installer	1	29.84	29.84
324	Constant Velocity Joint (CV) Service Tools:			
325	Boot Installation Tool	1	22.05	22.05
326	Boot Clamp Pliers or Crimping Rings	1	24.99	24.99
327	Front Wheel Drive Engine Support Fixture	1	41.48	41.48
328	Rotating Torque Wrench (beam-type or equivalent)	1	404.46	404.46
329	Universal Joint Tools	1	104.99	104.99
330				
331	Engine Repair			
332	Antifreeze/Coolant Tester	1	19.97	19.97
333	Oil Pressure Gauge	1	32.19	32.19
334	Straight Edge	1	27.99	27.99
335	Torque Angle Gauge	1	13.31	13.31
336				
337				
338	OPTIONAL: Trainers, CNC Systems, and Simulators that enhance student learning, raise student achievement, meet industry standards, and have SDE approval.			
339				
340	Total			54,296.52
341				
342				
343	Automotive Equipment-Specialty Tools MST ONLY	Suggested Quantity	Estimated Cost Each	Estimated Total Cost

	A	B	C	D
344	SUSPENSION & STEERING			
345	Ball Joint Press and other Special Tools	1	526.69	526.69
346	Brake Pedal Depressor	1	60.19	60.19
347	Bushing Driver Set	1	37.45	37.45
348	Coil Spring Compressor Tool	1	25.42	25.42
349	Chassis Ear (recommended)	1	47.95	47.95
350	Hand Grease Gun	1	32.21	32.21
351	Inner Tie Rod End Tool	1	59.63	59.63
352	Pitman Arm Puller	1	67.46	67.46
353	Power Steering Pump Pulley Special Tool Set	1	121.88	121.88
354	Power Steering Pressure Guages	1	177.00	177.00
355	Shock Absorber Tools	1	100.00	100.00
356	Strut Spring Compressor Tool	1	782.10	782.10
357	Steering Column Special Tool Set	1	57.68	57.68
358	Tie Rod Puller	1	79.51	79.51
359	Tire Mounting Machine (rim clamp type)	1	4,692.76	4,692.76
360	Tire Patching Tools and Supplies	1	477.00	477.00
361	Wheel Alignment Equipment	1	13,500.00	13,500.00
362	Wheel Balancer - Electronic Type	1	3,307.64	3,307.64
363	Wheel Weight Pliers	1	54.71	54.71
364				
365	BRAKES			
366	Bearing Seal and Race Driver Set	1	41.42	41.42
367	Brake Bleeder, Pressure or Vacuum	1	389.96	389.96
368	Brake Disc Micrometer	1	101.21	101.21
369	Brake Drum Micrometer and Calibration Equipment	1	123.71	123.71
370	Brake Lathe (bench with disc and drum service attachments)	1	8,204.00	8,204.00
371	Brake Lathe (on car)	1	9,000.00	9,000.00
372	Brake Shoe Adjusting Gauge	1	30.00	30.00
373	Brake Spring Remover/Installer	1	146.99	146.99
374	Brake Spring Pliers	1	50.68	50.68
375	Brake Spoon	1	15.34	15.34
376	Piston Retraction Set	1	42.83	42.83
377				
378				

	A	B	C	D
379	HEATING AND AIR CONDITIONING			
380	A/C Compressor Clutch Service Tools	1	29.49	29.49
381	A/C Service Port Adapter Set	1	15.18	15.18
382	Dye Injector	1	129.95	129.95
383	Hygrometer	1	78.88	78.88
384	Leak Detector (SAE Standard)	1	126.42	126.42
385	Manifold Gauge Set or equivalent (HFC-134a)	1	163.13	163.13
386	Refrigerant Charging Station (HFC-134a)	1	4,185.76	4,185.76
387	Refrigerant Identification Equipment	1	742.95	742.95
388	Refrigerant Recovery/Recycling Machine (HFC-134a)	1	838.86	838.86
389	Thermometer	1	7.74	7.74
390				
391				
392	ENGINE PERFORMANCE			
393	Cylinder Power Balance Tester	1	188.77	188.77
394	Fuel Injection Pressure Gauge Sets with Adapters Graphing Multimeter (GMM) and/or Digital Storage	1	600.00	600.00
395	Oscilloscope (DSO)	1	772.46	772.46
396	Infrared Thermometer (or appropriate substitution)	1	177.00	177.00
397	Injector Pulse Tester	1	69.49	69.49
398	Logic Probe (suggested)	1	61.46	61.46
399	Oxygen Sensor Socket	1	108.38	108.38
400	Pinch-off Pliers	1	21.20	21.20
401	Sending Unit Socket(s)	1	76.20	76.20
402	Spark Plug Thread Tap	1	38.50	38.50
403	Spark Tester	1	8.48	8.48
404	Timing Advance Light	1	348.00	348.00
405	Vacuum/Pressure Gauge	1	74.96	74.96
406				
407	Automatic Transmission/Transaxle			
408	Hydraulic Pressure Gauge Set	1	95.77	95.77
409	Transmission Jack (s)	1	273.51	273.51
410	Transmission /Transaxle Flushing Equipment (recommended)	1	909.99	909.99
411	Transmission/Transaxle Removal and Installation Equipment	1	1,122.77	1,122.77
412	Transmission/Transaxle Holding Fixtures	1	296.08	296.08
413				

	A	B	C	D
414	ELECTRICAL/ELECTRONIC SYSTEMS			
415	Connector Pick Tool Set	1	24.00	24.00
416	Door Panel Trim Tool(s)	1	127.24	127.24
417	Headlight Aimer or Screen	1	329.96	329.96
418	Heat Gun (or equivalent for heat shrinking operations)	1	177.00	177.00
419	Wire and Terminal Repair Kit	1	72.52	72.52
420				
421				
422	Manual Drive Train and Axles			
423	Axle Nut Socket set (or equivalent)	1	68.21	68.21
424	Clutch Alignment set	1	37.70	37.70
425	Clutch Pilot Bearing/Bushing Puller/Installer	1	29.84	29.84
426	Constant Velocity Joint (CV) Service Tools:			
427	Boot Installation Tool	1	22.05	22.05
428	Boot Clamp Pliers or Crimping Rings	1	24.99	24.99
429	Front Wheel Drive Engine Support Fixture	1	41.48	41.48
430	Rotating Torque Wrench (beam-type or equivalent)	1	404.46	404.46
431	Universal Joint Tools	1	104.99	104.99
432				
433	Engine Repair			
434	Antifreeze/Coolant Tester	1	19.97	19.97
435	Oil Pressure Gauge	1	32.19	32.19
436	Straight Edge	1	27.99	27.99
437	Torque Angle Gauge	1	13.31	13.31
438				
439				
440	OPTIONAL: Trainers, CNC Systems, and Simulators that enhance student learning, raise student achievement, meet industry standards, and have SDE approval.			
441				
442	Total			55,472.70
443				