

Southern Educational Systems, Inc.

Educational & Industrial Training Equipment Specialist

P. O. Box 170339 Spartanburg, SC 29301

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Date: October 1, 2024	Quotation	Quote # JW-241001-001
Prepared for: Dr. Cassandra Miller-Washington Hutchings College & Career Academy 1780 Anthony Road Macon, Georgia 31204 cassandra.washington@bcsdk12.net		
		Ph. (478) 779-4896 Ext. Cell
Delivery: 90 to 120 Days A.R.O	FOB: Destination	Terms: Net 30 Days
CAT:	File Name:	
Qty	Module	Description
		Unit
		Extended

PRICES FIRM FOR 90 DAYS FROM DATE OF QUOTATION
AFTER 90 DAYS CUSTOMER MUST CONTACT SES FOR CURRENT PRICES

Lucas-Nuelle UniTrain Fundamentals Courses

10	CO4203-2A	UniTrain Interface w/ virtual instruments (basic VI)	\$	4,089.00	\$	40,890.00
30	CO4203-2B	UniTrain Experimenter	\$	514.00	\$	15,420.00
10	CO4203-2J	UniTrain measurement accessories, shunts and connection cables	\$	295.00	\$	2,950.00
10	LM2330	Multi13S Digital Multimeter	\$	219.00	\$	2,190.00
10	CO4205-1D	Automotive Electrical Fundamentals 1 Board	\$	3,081.00	\$	30,810.00
10	CO4205-1M	Safe Handling of HV Systems	\$	1,618.00	\$	16,180.00
2	CO4204-6N	Electric drive in cars, commercial vehicles and 2-wheelers	\$	4,990.00	\$	9,980.00
2	CO4204-6L	DC/AC Conversion in Vehicles	\$	1,835.00	\$	3,670.00
2	CO4205-1Z	HV Battery with Smart Relays	\$	2,606.00	\$	5,212.00
2	CO4205-1H	Interlock in HEV and EV	\$	2,804.00	\$	5,608.00
2	CO4205-1L	DC-DC Step-Down Converters in Hybrid and all Electric Vehicles	\$	2,804.00	\$	5,608.00
2	CO4205-1K	DC-DC Step-Up Converters in HEV and EV	\$	2,804.00	\$	5,608.00
1	CO3223-7G	Measurements and Diagnosis on an Electric Drive Motor in Electric Vehicles	\$	4,995.00	\$	4,995.00

Advanced Driver Assistance Systems (ADAS)

2	CO4205-1EX	Course: LIDAR, Light Detection and Ranging	\$	4,572.00	\$	9,144.00
2	CO4205-1VX	Course: Radar, ACC with Emergency Brake Assist - Experimental Card and Radar Panel	\$	4,995.00	\$	9,990.00
2		Calibration Target for Radar and Camera	\$	4,995.00	\$	9,990.00
2		Storage Case	\$	500.00	\$	1,000.00
2	CO4205-1WX	Course: Front Facing Camera, Active Lane Assist - Experimental Card "Active Lane Keeping Assistant"	\$	4,495.00	\$	8,990.00
2		Calibration Target for Radar and Camera	\$	4,995.00	\$	9,990.00
2		Storage Case	\$	500.00	\$	1,000.00
2	CO4205-1C	Course: Ultrasonic Park Assist with Rear View Camera - Experimental Card Park Assist	\$	4,356.00	\$	8,712.00
2		Realistic Driver Assistance System, including Camera	\$	2,755.00	\$	5,510.00
2		Storage Case	\$	500.00	\$	1,000.00

2	CO4204-6W	Course: Vehicle Stabilization Systems - ABS, ESC and TCS - Experimental Card	\$	4,598.00	\$	9,196.00
2		Four Wheel with Independent Drive Simulator	\$	2,432.00	\$	4,864.00
2		Storage Case	\$	500.00	\$	1,000.00
Lucas-Nuelle ASE L3 Hybrid Trainer						
4	CO3221-6X8	CarTrain "Hybrid and Electric Vehicles - ASE L3 Trainer"				
		<i>Includes:</i>				
4		Touch Display with Firmware and User Interface with Virtual Cockpit	\$	4,278.00	\$	17,112.00
4		Frequency Converter for Electric Drive	\$	4,493.00	\$	17,972.00
4		Motor and Generator with Built-in Resolver	\$	4,997.00	\$	19,988.00
4		High-speed CAN Communication Bus System	\$	4,587.00	\$	18,348.00
4		Extended interlock system with service maintenance plug and HV measurement point	\$	3,479.00	\$	13,916.00
4		Fault Simulator with Lockable Box	\$	4,669.00	\$	18,676.00
4		High Voltage Circuit Board with 4mm Safety Measuring Outlets	\$	4,995.00	\$	19,980.00
4		EV Built-in Charging System with Type 1 Connector and Charging Cable	\$	4,897.00	\$	19,588.00
4		Built-in Test Instruments with Virtual Display	\$	4,467.00	\$	17,868.00
4		Operating Software with Control Functions	\$	3,989.00	\$	15,956.00
4		Teachware curriculum with content and ASE-L3 alignment	\$	4,595.00	\$	18,380.00
4		Metal housing with front panel made of non- conductive and non-flammable material	\$	4,388.00	\$	17,552.00
		<u>Additionally required:</u>				
4	LM8671	Equipment for setting up a safety zone (for high- voltage vehicles)	\$	1,190.00	\$	4,760.00
4	LM85708	US Electric Service Gloves Class 0	\$	316.00	\$	1,264.00
4	LM8660	Standard Group Lock Box for Lockout/Tagout (with 1 Padlock)	\$	197.00	\$	788.00
4	LM8329	Insulation Multimeter (1000V / 2GΩ, CAT III 1000 V, CAT IV 600 V)	\$	1,654.00	\$	6,616.00
4	LM8673	Fiber Pole for High Voltage Systems	\$	284.00	\$	1,136.00
4	LM8677	Extended safety equipment for diagnostics on HV vehicles	\$	1,094.00	\$	4,376.00
4	CO3221-6Q8	Charging Station for PEV and PHEV	\$	2,586.00	\$	10,344.00
4	ST8003-1X	Sideways training panel frame extension	\$	248.00	\$	992.00
4	ST7200-4K8	Mobile CarTrain/TruckTrain experiment trolley, 1070x1350x700mm	\$	2,637.00	\$	10,548.00
Lucas-Nuelle Hybrid HVBT Trainer						
4	CO3221-6S	CarTrain "Diagnosis and Maintenance of a High Voltage Battery"				
		<i>Includes:</i>				
4		Precharge and Main Relays with Self-diagnosis Function	\$	3,624.00	\$	14,496.00
4		16 Battery Modules, individually replaceable, digitally coded	\$	4,929.00	\$	19,716.00
4		8 Battery Temperature Sensors, Replaceable	\$	4,216.00	\$	16,864.00
4		Pilot Line System with Diagnostic Function	\$	4,265.00	\$	17,060.00
4		Hall-effect current sensor system for contactless measurement of charging and discharging processes	\$	4,735.00	\$	18,940.00
4		CCS Fast Charging System for DC and AC Charging	\$	3,984.00	\$	15,936.00

4		Digitally Networked CAN Bus Battery Management System with Measurement Interface	\$	4,587.00	\$	18,348.00
4		Fault switching system with 40 faults in the HV system and in the HV battery	\$	4,669.00	\$	18,676.00
4		Built-in Test Instruments with Virtual Display	\$	4,467.00	\$	17,868.00
4		Operating Software with Control Functions	\$	3,989.00	\$	15,956.00
4		Teachware curriculum with content and ASE-L3 alignment	\$	4,595.00	\$	18,380.00
4		Metal housing with front panel made of non-conductive and non-flammable material	\$	4,388.00	\$	17,552.00
4	CO3221-7H	Active cell balancer with test function (HV battery)	\$	2,897.00	\$	11,588.00
4	LM8671	Additionally required: Safety Zone for CarTrain (Hybrid and Electric Vehicles)	\$	1,190.00	\$	4,760.00
4	LM85708	US Electric Service Gloves Class 0	\$	316.00	\$	1,264.00
4	LM8660	Standard Group Lock Box for Lockout/Tagout (with 1 Padlock)	\$	197.00	\$	788.00
4	LM8313	Insulation and Electrical Resistance Meter (Automotive)	\$	916.00	\$	3,664.00
4	LM8673	Fiber Pole for High Voltage Systems	\$	284.00	\$	1,136.00
4	LM8677	Extended safety equipment for diagnostics on HV vehicles	\$	1,094.00	\$	4,376.00
4	CO3221-6Q8	Charging Station for PEV and PHEV	\$	2,586.00	\$	10,344.00
8	ST8003-1X	Sideways training panel frame extension	\$	248.00	\$	1,984.00
4	LM8669	Charging cable type 1 to type 2 for HV vehicles/CarTrain	\$	391.00	\$	1,564.00
4	ST7200-4K8	Mobile CarTrain/TruckTrain experiment trolley, 1070x1350x700mm	\$	2,637.00	\$	10,548.00
Additional Advanced EV Trainers (Optional)						
1	CO5127-4Q57	MobileTrain EV Charging Station Trainer, Wallbox, Level 2, 240V				
		Includes:				
1		Charging Infrastructure Systems and Cables	\$	4,056.00	\$	4,056.00
1		Fault Switching System for Troubleshooting	\$	3,030.00	\$	3,030.00
1		Mobile Suitcase	\$	1,000.00	\$	1,000.00
1	CO3223-6Z	CarTrain First Responder Trainer for Electric Vehicles				
		Includes:				
1		CarTrain "Accident Assistance and Recovery of HV Vehicles"	\$	4,856.00	\$	4,856.00
1		Real HV Cut-off Device, Disconnect Device & Fuse	\$	786.00	\$	786.00
1		Smart Key to Activate Vehicle	\$	245.00	\$	245.00
1		HV Fault Indication	\$	4,412.00	\$	4,412.00
1		Teachware Curriculum with Content	\$	4,595.00	\$	4,595.00
1		Metal housing with front panel made of non-conductive and non-flammable material	\$	4,388.00	\$	4,388.00
1	LM85708	US Electric Service Gloves Class 0	\$	316.00	\$	316.00
1	LM8315	Infra-red Camera for Vehicle Diagnostics	\$	995.00	\$	995.00
1	ST7200-4K8	Mobile CarTrain/TruckTrain experiment trolley, 1070x1350x700mm	\$	2,637.00	\$	2,637.00
Hybrid/EV Cutaways and Demonstrators						
1	MEGART-FORD-HYB	Ford Hybrid Drive Cutaway				
		Includes:				
1		Transaxle Cutaway	\$	4,995.00	\$	4,995.00
1		Drive Train Cutaway	\$	4,980.00	\$	4,980.00

1		Custom Benchtop Rotational Stand	\$	2,200.00	\$	2,200.00
1	MEG-SMR	Hybrid/Electric Vehicle System Main Relay Demonstrator				
		<i>Includes:</i>				
1		Toyota Prius Inverter Converter	\$	4,294.00	\$	4,294.00
1		Training Curriculum	\$	3,956.00	\$	3,956.00
1		Extruded Aluminum Frame	\$	700.00	\$	700.00
1	MEG-MG1/MG2	Toyota Hybrid Drive Cutaway				
		<i>Includes:</i>				
1		Fully Sectioned Toyota Hybrid Motor	\$	4,999.00	\$	4,999.00
1		Planetary Gear Set	\$	4,879.00	\$	4,879.00
1		Custom Benchtop Stand	\$	2,200.00	\$	2,200.00
1	MEGART-IMA	Honda Integrated Motor Assist Cutaway	\$	4,991.00	\$	4,991.00
		• Honda IMA Electric Motor				
		• Carefully Sectioned				
		• Professionally Painted				
1	MEG-INV-GENII	Gen II Prius Inverter Cutaway				
		<i>Includes:</i>				
1		Sectioned Inverter	\$	4,969.00	\$	4,969.00
1		Custom Benchtop Inverter Stand	\$	1,400.00	\$	1,400.00

Sub Total	\$ 823,354.00
Freight	Included
Installation & Training	Included
Total	\$ 823,354.00