

Educational Solutions Enterprises



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Effort, PA 18330
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Price Quotation
3/15/2012
Fluid Power

Prices valid for 60 days
Prices and packages are subject to
change without notice

PREPARED FOR:

Erie Technical School
Tracy Massello

tmassello@ects.org

Consultant		Terms	Delivery	FOB Point	
Steve Beels		Net 30 Days	60-90 Days ARO	Quebec, Canada	
Item#	Qty	Description	Part#	Unit Cost	Extended
1	1	Hydraulics 1 Fundamentals w/Assembled Bench ('A' Frame) + Panels***	6080-R0	\$17,927.00	\$17,927.00
		Includes:			
		1 - Hydraulics Fundamentals (Add-On)	6080-90		
		1 - Hose Rack	6304-00		
		1 - Power Unit	6310-00		
		1 - Directional Valve, Lever-Operated	6320-00		
		1 - Flow Control Valve	6321-00		
		1 - Relief Valve	6322-00		
		1 - Pressure Reducing Valve	6323-00		
		1 - Double-Acting Cylinder, 2.5-cm Bore	6340-00		
		1 - Double-Acting Cylinder, 3.85cm Bore	6341-00		
		1 - Bidirectional Motor and Flywheel	6342-00		
		2 - Pressure Gauge	6350-00		
		1 - Flowmeter	6351-00		
		1 - Loading Device	6380-00		
		2 - Manifold, Five Ports, Fixed	6390-00		
		2 - Manifold, Four Ports, Fixed	6391-00		
		1 - Hose Set	6392-10		
		1 - Hydraulics Fundamentals (Student Manual)	30794-00		
		1 - Hydraulics (Instructor Guide)	30794-10		
		1 - Industrial Hydraulic Technology, Bulletin 0232-B1 by Parker Hannifin Corp. (Textbook)	30794-80		
		1 - Work Surface (Dual A-Frame)	6301-10		
		1 - Assembled Bench (with Dressing Panels and Lockable Front/Rear Doors)	6303-D0		
		2 - Storage Trays	6309-00		
		***Note: If simultaneous work is to be performed on both sides - MUST order additional 6080-90			
2	1	Hydraulic-2 Add-on Package	6080-60	\$8,450.00	\$8,450.00
		Includes:			
		1 - Expanding Work Surface	6302-00		
		1 - Directional Valve, Double-Solenoid Operated	6324-00		

		1 - Directional Valve, Single-Solenoid Operated	6325-00		
		1 - Sequence Valve	6326-00		
		1 - Flow Control Valve, Pressure Compensated	6327-00		
		1 - Check Valve	6328-00		
		1 - DC Power Supply	6360-00		
		2 - Push-Button Station	6361-00		
		1 - Limit-Switch Assembly	6362-00		
		2 - Relay	6363-00		
		1 - Time-Delay Relay / Counter	6364-00		
		2 - Pilot-Lamp Station	6365-00		
		1 - Pressure Switch	6370-00		
		2 - Magnetic Proximity Switch	6371-00		
		1 - Diffuse Reflective Photoelectric Switch	6372-00		
		1 - Connection Leads	6392-A0		
		1 - Electrical Control of Hydraulic Systems (Student Manual)	31228-00		
3		Servo/Proportional Cntrl (Hyd. Add-on)	6080-40	\$10,180.00	
		<i>Includes:</i>			
		1 - Proportional Directional Control Valve	6329-00		
		1 - Signal Conditioners	6366-00		
		1 - PID Controller	6367-00		
		1 - Pressure Transducer	6379-00		
		1 - Position Transducer	6395-00		
		1 - Servo Control of Hydraulic Systems (Student Manual)	31745-00		
4	1	Troubleshooting Hydraulic Circuits	6080-F0	\$6,590.00	\$6,590.00
		<i>Includes:</i>			
		Directional Valve, Lever-Operated	6320-F0		
		Directional Valve, Lever-Operated	6320-G0		
		Pressure Reducing Valve	6323-F0		
		Double-Acting Cylinder, 2.54-cm Bore	6340-F0		
		Double-Acting Cylinder, 3.81-cm Bore	6341-F0		
		Bidirectional Motor and Flywheel	6342-F0		
		Inst. Guide Troubleshooting Hydraulic Circuits	86271-10		
5		Hydraulics Applications - PLC	6082-50	\$2,168.00	
		<i>Includes:</i>			
		1 - Programmable Logic Controller Software (Rockwell Software)	3245-A0		
		1 - PC Interface (Allen Bradley)	3246-40		
		1 - Programmable Logic Controller (Allen Bradley)	3270-40		
		Hydraulics Applications - PLC (Student Manual)	31305-00		
6		Hydraulic Applications - PLC	6082-60	\$3,348.00	
		<i>Includes:</i>			
		1 - Programmable Logic Controller Software (Omron)	3245-20		
		1 - PC Interface (Omron)	3246-20		
		1 - Programmable Logic Controller (Omron)	3270-50		
		Hydraulics Applications - PLC (Student Manual)	31305-00		

7		Hydraulic Applications - PLC	6082-70	\$3,115.00	
		<i>Includes:</i>			
		1 - Programmable Logic Controller Software (Siemens)	3245-30		
		1 - PC Interface (Siemens)	3246-30		
		1 - Programmable Logic Controller (Siemens)	3270-60		
		1 - Hydraulics Applications - PLC (Student Manual)	31305-00		
		Optional Equipment Required to Perform the Exercises:			
8		Digital Tachometer	8920-40	\$595.00	
9		Oil-Resistant Glove	74240-00	\$8.00	
10		Stopwatch	77660-00	\$26.00	
11	1	Sensors Add-On	6085	\$3,620.00	\$3,620.00
		<i>Includes:</i>			
		1 - Background Suppression Photoelectric Switch	6373-00		
		1 - Polarized Retroreflective Photoelectric Switch	6374-00		
		1 - Inductive Proximity Switch	6375-00		
		1 - Capacitive Proximity Switch	6376-00		
		1 - Diffuse Reflective Photoelectric Switch	6377-00		
		1 - Fiber-Optic Photoelectric Switch	6378-00		
		1 - Reflective Block	6396-00		
		1 - Sensors (Student Manual)	32606-00		
		1 - Sensors (Instructor Guide)	32606-10		
12		Sensors Package (Stand Alone)	6085-A0	\$4,161.00	
13		LVSIM-Hydraulics (1 User)	6385-00	\$555.00	
14		LVSIM-Hydraulics (5 User)	6385-A0	\$1,941.00	
15		LVSIM-Hydraulics (10 User)	6385-B0	\$3,327.00	
16		LVSIM-Hydraulics (15 User)	6385-C0	\$4,159.00	
17		LVSIM-Hydraulics (20 User)	6385-D0	\$4,212.00	
18		Hydraulics Manuals on CD-ROM	30794-A0	\$891.00	
19		Hydraulics Add-On	6080-90-SP	\$15,715.00	
20	1	Pneumatics Fundamentals (Add-On)	6081-90	\$5,280.00	\$5,280.00
		Same as 6081-10 without Work Surface Model 6301-00			
21	1	Pneumatic-2 Add-on Package	6081-20	\$5,690.00	\$5,690.00
		<i>Includes:</i>			
		1 - Expanding Work Surface (Large)	6302-00		
		1 - DC Power Supply	6360-00		
		2 - Push-Button Station	6361-00		
		1 - Limit-Switch Assembly	6362-00		
		2 - Relay	6363-00		
		1 - Time-Delay Relay/Counter	6364-00		
		2 - Pilot-Lamp Station	6365-00		
		2 - Magnetic Proximity Switch	6371-00		
		1 - Diffuse Reflective Photoelectric Switch	6372-00		
		1 - Directional Valve, Double-Solenoid Operated	6423-00		

		1 - Directional Valve, Single-Solenoid Operated	6424-00		
		1 - AND Function Valve	6425-00		
		1 - Shuttle Valve	6426-00		
		1 - Quick Exhaust Valve	6427-00		
		1 - Pressure Regulator	6428-00		
		1 - Pressure Switch	6470-00		
		1 - Tees	6490-00		
		1 - Connection Leads	6491-A0		
		1 - Electrical Control of Pneumatic Systems (Student Manual)	31300-00		
22	1	Troubleshooting Pneumatic Circuits	6081-F0	\$2,846.00	\$2,846.00
		<i>Includes:</i>			
		Conditioning Unit	6411-F0		
		Accumulator	6412-F0		
		Vacuum Generator	6413-F0		
		Directional Valve, Push-Button Operated	6420-F0		
		Directional Valve, Double-Air-Pilot Operated	6422-F0		
		Loading Device	6480-F0		
		Tees	6490-F0		
		Long Line	6492-F0		
		Inst. Guide Troubleshooting Pneumatic Circuits	86272-10		
23	1	Pneumatics Applications - PLC	6082-50	\$2,168.00	
		<i>Includes:</i>			
		1 - Programmable Logic Controller Software (Rockwell Software)	3245-A0		
		1 - PC Interface (Allen Bradley)	3246-40		
		1 - Programmable Logic Controller (Allen Bradley)	3270-40		
		Hydraulics Applications - PLC (Student Manual)	31305-00		
24		Pneumatics Applications - PLC	6082-60	\$3,348.00	
		<i>Includes:</i>			
		1 - Programmable Logic Controller Software (Omron)	3245-20		
		1 - PC Interface (Omron)	3246-20		
		1 - Programmable Logic Controller (Omron)	3270-50		
		Hydraulics Applications - PLC (Student Manual)	31305-00		
25		Pneumatics Applications - PLC	6082-70	\$3,115.00	
		<i>Includes:</i>			
		1 - Programmable Logic Controller Software (Siemens)	3245-30		
		1 - PC Interface (Siemens)	3246-30		
		1 - Programmable Logic Controller (Siemens)	3270-60		
		1 - Hydraulics Applications - PLC (Student Manual)	31305-00		
		<i>Optional Equipment Required to Perform the Exercises:</i>			
26		Digital Tachometer	8920-40	\$595.00	
27		Stopwatch	77660-00	\$26.00	
28		Gloves	36399-00	\$8.00	
29		Compressor, Medium Flow	6410-B0	\$8,550.00	

30	2	Storage Trays	6309-00	\$150.00	\$300.00
31		Sensors	6085	\$3,620.00	
		<i>Includes:</i>			
		1 - Background Suppression Photoelectric Switch	6373-00		
		1 - Polarized Retroreflective Photoelectric Switch	6374-00		
		1 - Inductive Proximity Switch	6375-00		
		1 - Capacitive Proximity Switch	6376-00		
		1 - Diffuse Reflective Photoelectric Switch	6377-00		
		1 - Fiber-Optic Photoelectric Switch	6378-00		
		1 - Reflective Block	6396-00		
		1 - Sensors (Student Manual)	32606-00		
		1 - Sensors (Instructor Guide)	32606-10		
32		Sensors Package (Stand Alone)	6085-A0	\$4,161.00	
33		LVSIM-Pneumatics (1 User)	6485-00	\$555.00	
34		LVSIM-Pneumatics (5 User)	6485-A0	\$1,941.00	
35		LVSIM-Pneumatics (10 User)	6485-B0	\$3,327.00	
36		LVSIM-Pneumatics (15 User)	6485-C0	\$4,159.00	
37		LVSIM-Pneumatics (20 User)	6485-D0	\$4,212.00	
38	1	Pneumatics Manual on CD-ROM	31290-A0	\$994.00	\$994.00
			Sub Total		\$51,697.00
			Shipping & Handling		Included
			Set- Up		Included
			Grand Total		\$51,697.00

****Order Additional Work Surfaces (6309) if additional levels are desired****



March 1, 2012

Mr. Paul Fritz
Erie County Technical School
8500 Oliver Road
Erie, PA 16509

Ref: Sole Source Provider

Dear Mr. Fritz,

Thank you for your interest in Lab-Volt products. For your information and records, please be advised that all of the electromechanical products are manufactured by Lab-Volt Systems, Inc., and are available only through authorized Lab-Volt dealers and sales representatives. Our representatives are trained in the operation and service of these products.

Your authorized representative for Lab-Volt products in the state of PA is:

Educational Solutions
P.O. Box 700
Effort, PA 18330

Steve Beels
142 Applewood Lane
Slippery Rock, PA 16057
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Please feel free to contact Educational Solutions if you have any questions or need additional information.

Respectfully yours,

Daniel Rodriguez
Senior Vice President
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cc: Educational Solutions