



8500 Oliver Road, Erie, PA 16509

814-464-8600

www.ects.org

An equal rights and opportunities school

July 22, 2009

The Joint Operating Committee of Erie County Technical School is seeking bids for:

Industrial Wiring Training System

Bid proposals must be received no later than 11:00 AM, August 17, 2009. The bid proposals will be publicly opened at that time

Bids are scheduled to be awarded at the August 27, 2009 Joint Operating Committee Meeting

1. GENERAL SPECIFICATIONS

- A. All bids must be submitted in a sealed envelope labeled ‘**Erie County Technical School Industrial Wiring Training System Bid**’ and delivered to Paul Fritz, Business Manager, Erie County Technical School, 8500 Oliver Road, Erie, PA 16509-4699.
- B. The Erie County Technical School reserves the right to reject any or all bids and to waive any formalities in conjunction with the bid, retains the right to evaluate bid items as they are intended for use, to select the equipment, supplies, or services which represents the best value regardless of price. Any interpretation of equivalency shall be determined finally by the Joint Operating Committee of the Erie County Technical School.
- C. No purchase contract shall exist between the bidder/seller and Erie County Technical School until the properly executed purchase orders, including all pertinent terms, conditions, specifications, drawings and/or other attachments are issued to the bidder/seller by Erie County Technical School.
- D. The successful bidder will be awarded the contract upon approval of the Joint Operating Committee of Erie County Technical School.
- E. Bidders shall not take advantage of any errors, inconsistencies or omissions in the specifications. Bidders will be obliged to promptly notify Erie County Technical School of the same prior to the time set for the bid opening.

- F. All bids must be typed or handwritten in permanent ink on this document as the Bid Form and must be properly signed with original signatures. Changes or alterations in the bid specifications or conditions of such automatically disqualify the bid.
- G. No bidder may withdraw a bid for a period of **60 days** after the date set for the awarding thereof, nor may a bidder set a sooner expiration date on a bid other than stipulated herein.
- H. All items on this bid must be New, which shall mean first-time usage. All items on this bid shall be of current manufacture, which shall mean the most recent line of the times being made available to the bidder by the manufacturer, including the most recent release of any software under which the equipment operates.
- I. **Bids shall include the complete fabrication, delivery and installation ready for use all in accordance with these specifications. Any part or accessory not specifically mentioned herein, which is normally part of the equipment or necessary to complete installation of same shall be included in the bid price.**
- J. Standard of Quality: The various materials and products specified in the specifications by name or description is given to establish a standard of quality and of cost for bid purposes. It is not the intent to limit the acceptance to any one material or product specified, but rather to name or describe it as the absolute minimum standard that is desired and acceptable. A material or product of lesser quality would not be acceptable. Where proprietary names are used, whether or not followed by the words “or as approved equal”, they shall be subject to equals only as approved by our architect and/or engineer, or other responsible party.
- K. No cash allowance: No cash allowances for any purposes are included in the specifications of this project.
- L. The bidder shall have the responsibility for loss or damage in shipment, delivery and installation of all equipment, parts and goods until time of transfer or acceptance by Erie County Technical School.
- M. The bidder shall exercise reasonable care to avoid any damage to the owner’s property and shall be responsible for any repair of any such damage.
- N. **Bidder warrants that each piece of equipment and software shall be free from defects in material and workmanship for a minimum period of twelve (12) months from the date of acceptance and is fit for the purpose intended. Bidder further warrants that it will, at bidder’s expense, fix, repair or replace the equipment or any part thereof through the warranty term. Warranty shall include on-site service. Warranty information and description must be included with the bid submission.**
- O. **Payment: Supplier will be paid 100% of the contract price upon acceptable receipt of all items as determined by the ECTS Business Manager.**

- P. Clearances: PA Acts 34, 114 and 151: The contactor, sub contractors, and material suppliers, and employees of same, who may be coming in direct contact with children, shall be required to comply with the provisions of Act 34 of 1985 and Act 151, pertaining to criminal and child abuse history. Proper certification of compliance shall be placed on file in the office of the Business Manager prior to any employee working on the premises of the school.
- Q. **Suppliers should be aware that donations of equipment to Erie County Technical School can be made through our Erie County Technical School Foundation which is a charitable organization under section 501(c) (3) of the Internal Revenue Code. Donations may also qualify for tax credits under Pennsylvania tax laws. Erie County Technical School encourages contributions and donations to our educational programs.**
- R. **Bid bond or bank cashier's check payable to Erie County Technical School in the amount of 10% of the total bid price is required with the bid.** Bid bonds and checks will be returned to the unsuccessful bidders upon award of a purchase order by the Joint Operating Committee.

2. PRODUCT DESCRIPTION

Product must be equal to, or better than:

Lab-Volt ® Industrial Wiring Training System

Item No.	Description	Lab-Volt® Part No. *
1	Industrial Wiring Training System-Standard	46102-20
	Includes:	
	Mobile Workstation	46801
	Service Entrance 3-Phase Power Bus	46802
	Enclosures and Conduits	46810
	Electrical Wiring	46811
	Electrical Power Distribution	46815
	Additional Required Equipment:	
2	Electrical Wiring Tools	46841
3	Enclosures and Conduit Tools	46840
4	Industrial Wiring Training System-Level 2	46102-30
	Optional Equipment-Level2	
5	Inertia Load	46830
6	Blower Application	46831
7	Power Quality Analyzer	46832
	Consumables	
8	Enclosure Consumables (Per student)	46850
9	Conduit Consumables (Per student)	46851
10	Electrical Wiring Consumables (Per student)	46852
11	Electrical Power Distribution Consumables	46853
12	3-Phase Motor Starter Consumables	46854
13	Electrical Wiring consumables (46813)	46855
14	Electrical Wiring Consumables (46814)	46856
15	PDF Format of all LV Manuals on the Industrial Wiring Training System	37866-AO

* Quantity – one of each item

ALTERNATE PROPOSAL – submit complete product specifications and terms for any alternates being proposed

CAREER AND TECHNICAL EDUCATION

Industrial Wiring Training System

Model 46102



Lab-Volt®

OVERALL DESCRIPTION

The Lab-Volt Industrial Wiring Training System, Model 46102, faithfully reproduces an industrial environment where students can develop their skills in the installation and wiring of industrial electrical equipment, in compliance with the National Electrical Code® (NEC®). The system can also be used to teach how to adjust and maintain industrial electrical equipment as well as enforce the safety rules to be followed when working at industrial sites.

Due to its modular design, the Industrial Wiring Training System can be configured to fit various training needs. A versatile, mobile workstation is the basis of the system. The following equipment packages, tool packages, and industrial application packages are available to adjust the curriculum to various training levels:

- Enclosures and Conduits
- Enclosure and Conduit Tools
- Service Entrance
- Electrical Wiring
- Electrical Wiring Tools
- Three-Phase Motor with Forward Starter, Forward/Reverse Starter, and Soft Starter
- AC Motor Drive with Inverter Duty Motor
- PWM and SCR DC Motor Drives with DC Shunt Motor
- Distribution Panel
- Inertia Load Application
- Blower Application
- Clamp-On Ammeter

The above packages consist of industrial-type equipment and tools for realistic training. Packages of consumable goods like conduits, conduit fittings, dummy electrical enclosures and boxes, reels of electrical wire, etc. are also available.



(732) 938-2000 / 800-LAB-VOLT, FAX: (732) 774-8573, E-MAIL: us@labvolt.com
(418) 849-1000 / 800-LAB-VOLT, FAX: (418) 849-1666, E-MAIL: ca@labvolt.com
INTERNET: <http://www.labvolt.com>

INDUSTRIAL WIRING TRAINING SYSTEM

Series 46102



Shown with optional components

Topic Coverage

- Enclosures and Conduits
 - » Includes installing metal struts, enclosures and boxes, flexible metal conduits, liquid-tight flexible nonmetallic conduits, electrical metallic tubing, and rigid metal conduits.
- Electrical Power Distribution
 - » Includes installing a main distribution and downstream distribution panel board, conduit and conductor installation, and wiring the main distribution panel board.
- Electrical Wiring
 - » Includes installing safety switch handle and motor overload reset button on the motor control enclosure, overhead door installation, reading electrical drawings, and connection of the overhead door simulator to the power lines.
- Three-Phase Motor Starters
- AC Motor Drive
- DC Motor Drive

The Lab-Volt Industrial Wiring Training System, Model 46102 faithfully reproduces an industrial environment where students can develop their skills in the installation and wiring of industrial electrical equipment, in compliance with the National Electrical Code® (NEC®). The system can also be used to teach trainees how to adjust and maintain industrial electrical equipment as well as enforce the safety rules to be followed when working at industrial sites.

The Industrial Wiring Training System is divided into two levels, each level being further divided into specific topics that deal with various aspects of industrial electrical equipment installation. The Industrial Wiring Training System – Level 1, Model 46102-20, provides the student with complete basic training as an electrician.

The Industrial Wiring Training System – Level 2, Model 46102-30, expands on Level 1 to provide training in motor control equipment installation as well as a solid introduction to the maintenance of industrial electrical equipment.

The Trainer supports up to four equipment setups at a time, allowing multiple student groups to work at a single workstation. Two or more equipment setups can be grouped together to form complex industrial applications. Selection of equipment packages allows the system to meet a wide range of training objectives while fully illustrated courseware guides students through various tasks. This trainer also includes a mobile workstation featuring swiveling casters with lock mechanisms for easy motion and stable operation. The trainer is sized to fit through standard door openings.



3. PRICING BID FORM

Item No.	Description	Lab-Volt® Part No.	Bid Price
1	Industrial Wiring Training System-Standard	46102-20	\$
	Includes:		
	Mobile Workstation	46801	
	Service Entrance 3-Phase Power Bus	46802	
	Enclosures and Conduits	46810	
	Electrical Wiring	46811	
	Electrical Power Distribution	46815	
	Additional Required Equipment:		
2	Electrical Wiring Tools	46841	\$
3	Enclosures and Conduit Tools	46840	\$
4	Industrial Wiring Training System-Level 2	46102-30	\$
	Optional Equipment-Level2		
5	Inertia Load	46830	\$
6	Blower Application	46831	\$
7	Power Quality Analyzer	46832	\$
	Consumables		
8	Enclosure Consumables (Per student)	46850	\$
9	Conduit Consumables (Per student)	46851	\$
10	Electrical Wiring Consumables (Per student)	46852	\$
11	Electrical Power Distribution Consumables	46853	\$
12	3-Phase Motor Starter Consumables	46854	\$
13	Electrical Wiring consumables (46813)	46855	\$
14	Electrical Wiring Consumables (46814)	46856	\$
15	PDF Format of all LV Manuals on the Industrial Wiring Training System	37866-AO	\$
	Total Bid Price - all items		\$
	Shipping costs, delivery costs, installation costs		\$ included
	All installation, set-up, training, and customer support costs		\$ included

4. SIGNATURE

Having carefully reviewed the Bid Specifications supplied by Erie County Technical School and being completely familiar with all requirements and conditions set forth, the undersigned agrees to supply all materials and services required for the project. The undersigned further acknowledges the right of Erie County Technical School to reject any and all bids and to waive any defect in form. The undersigned further certifies that this bid was prepared independently and without collusion with any known bidders in compliance with the Pennsylvania Anti-Bid-Rigging Act

Firm Name _____

Address _____

City, State, Zip Code _____

Phone _____

By _____

Title _____

Signature _____ Date _____