



INSTRUCTIONAL EQUIPMENT REQUEST

Due in Dean/Unit Head's Office on September 19, 2011 (FALL) and March 1, 2011 (SPRING)

The Definition of Instructional Equipment can be found in the California Community College's Budget and Accounting Manual. A copy of these definitions is on the PBC webpage:
<http://grapevine/pbc/InstructionalEquipment.php>

Name of Requestor:	Ron Johansen
Division/Unit	MSEPS / Fire and EMS Technologies
Brief title of request (equipment or materials being requested must be similar, related or part of a system.)	Portacount Quantitative Respirator Fit Tester 8038

Request amount (unit cost and total cost including tax and shipping. Please include all costs including installation, modification to existing facilities to accommodate new equipment, etc.): This should come from the vendor quote.

Item(s) Cost	\$ 12,810.00
Tax (0.0875)	\$ 1,120.88
Shipping	\$ not available
Installation	\$ n/a
Facilities Modification	\$ n/a
Other	\$ n/a
	\$
Total Cost	\$ 13,930.88

Attach copy of quote(s), estimate(s) and requisition(s):
(Must attach quote & requisition; absence of either will delay processing)

Brief description of specific equipment or materials requested and what they will be used for: (include the # pieces being requested; i.e.: 10 crayola crayons, sky blue, etc. in 250 words or less)

The TSI PortaCount Pro+ Quantitative Respirator Fit Tester 8038, is a Respiratory Protection Fit Tester for testing all types of Respiratory Protection devices from Gas Masks, SCBA's, Respirators and N-95 Disposable Filtering Mask for etiological agents and airborne pathogens. Under the National Respiratory Protection Act, and governed and enforced by NIOSH and CAL OSHA. All individuals whom are required to work in a potential IDLH Atmospheres and or atmospheres where etiological agents or airborne pathogens may be present are required to wear respiratory protection conducive to the potential threat environment one may be potentially exposed to. This can include Chemical, Biological, Radiological, Nuclear (CBRN) threats. Under CAL OSHA compliance requirements all individuals must be fit tested to ensure proper seals can be maintained, optimizing protection under various work and activity conditions including verbal communication while wearing the respiratory protection device. Compliance requirements can be found in 29 CFR Parts 1910.120 and 1926.

Is this in your Program Review? Yes No

The program review identifies the requirement of students to participate in Clinical Rotations in the Hospital Setting for our EMS Students enrolled in EMS 81 (Emergency Medical Technician). It has been identified by our contracting partner Hospitals which currently place our students in Clinical Rotations for Skills development in the Emergency Department and Trauma Center Hospital environments that all Students meet CLA OSHA Compliant Fit Testing for Respiratory Protection which includes the N-95 Filtration Mask to .4 microns protecting against etiological agents and airborne pathogens.

Is it a replacement? Yes

Upgrade? Yes

New technology? Yes

Please explain?

The National Respiratory Protection Act along with CAL OSHA compliance enforcement has recently identified that all students who are in temporary placement within environments where potential threats exist, are to be held to the same required respiratory protection standards which have been clearly identified for all "normal" employees and/or individuals designated to operate or function within a potential threat environment where respiratory protection is required as per the National Respiratory Protection Act. All current Contract Hospitals for current placement of our students into "Clinical Observation" opportunities now require our students to meet the requirements of Federal Mandates which include CAL OSHA Compliance Fit Testing. Upon proper quantitative successful "Fit Testing", students shall be provided N-95 Filtration Masks which will be required to remain with the student during their Clinical Rotations. The N-95 Filtration Mask will be purchased by Students separately. This is new Technology that provides for "Quantitative Testing" which includes computer software allowing for electronic record keeping and appropriate documentation for any potential CAL OSHA or NIOSH Audit and for satisfying through documentation Contract Hospitals requirements of CAL OSHA compliancy.

Following is the evaluation criteria; please see corresponding Instructional Equipment Rubric.

Instructional and Service Impact

How will this item have a positive impact on instruction and/or teaching and learning in the classroom? Is this for use by the Instructor or students, or both?

This is equipment that will be used by a Faculty Member Only. The Faculty Member will receive appropriate Training from the Vendor, to provide testing and to act as a Respiratory Protection Program Manager for Las Positas College. Several current Faculty within the EMS and FST Programs have the appropriate qualifications to be classified as the Respiratory Protection Program Manager per 29 CFR 1910.120 requirements. Students will be introduced to the mandated "Respiratory Protection Fit Testing" requirements and will participate in the physical testing. This testing will be repeated yearly as they enter their respective fields of employment in the EMS, Health Care and Fire/Rescue Professions. Students will have a clear understanding and a physical grasp of the testing requirements prior to employment through their experience with the testing through Las Positas College.

Impact on Enrollment

Will the equipment impact enrollment, attract or increase the number of students participating in a course or program?

Without the ability to meet CAL OSHA Fit Testing requirements, students will no longer be able to participate in the hospital setting for "Clinical Rotations". The inability to participate in this important and valuable experience could have a dramatic affect on enrollments. The EMS "Emergency Medical Technician Program" here at Las Positas College has been recognized as one of the top programs in the State (out of 124 Programs), consistently placing in the top five programs state wide semester after semester. This data comes from third party testing (National Registry of Emergency Medical Technician) which conducts all testing of Students in California who has completed an approved EMT Training Program. Successful completion of the third party testing allows for recognition and issuing of "NREMT Certification". The success rate for Las Positas College has been partly due to the fact that we are one of the few programs that requires clinical rotations from our students in the Hospital Setting (desired of EMT programs by State Title 22 Guidelines).

It is the clinical rotations that is not done in most all other programs state wide that has allowed our program to stand out as one of the strongest in the State. It has been recognized by those within the Industry and has played a major role in why our graduates have a higher success rate for opportunities of employment. It has also better prepared our students for further advancement in the "EMS Chain of Survival" with graduates moving on to become "Pre-Hospital Care Paramedics" Where Clinical Hospital Rotations of several Hundred Hours are required by Title 22.

Access

How does this item promote the principles of universal design, by providing opportunities for under-represented populations & accommodate students with diverse learning styles?

Students will have the benefit of learning in a real "Clinical Environment" with observation opportunities of real patients in a Hospital Setting. The Emergency Department and the Trauma Center of area Hospitals observation opportunities will have a profound impact on many students with reinforcing current cognitive knowledge learned in the classroom environment as well as giving students the opportunity to apply some psychomotor skill sets also developed in the classroom setting. This can have a profound impact on the overall success of many students who have different learning styles ideal for clinical experience.

Outcomes

How will this equipment enable or enhance SLOs? What are the consequences related to learning outcomes if request is not funded?

The number one SLO for the EMS Training Programs is the ability to pass both a cognitive and psychomotor skills exam administered by a third party required testing service for recognition and issuing of certifications (NREMT). The ability to participate in Clinical Observations which now require "Respiratory Protection Fit Testing" for all participants has an indirect impact on the meeting of SLO's for students who participate in the Emergency Medical Technician Training Program here at Las Positas College. Currently the State Average for passing the NREMT exam is in the 60% range with Las Positas College currently averaging in the high 80% to mid 90% range each semester. It is believed that without continued "Clinical Observation" opportunities that the current success rates demonstrated with past classes could diminish in future classes having a direct impact on meeting desired SLO's.

Total Cost of Ownership (This is an attempt to identify what the ongoing costs of purchasing this equipment will be to the institution)

- a) What is the lifespan of the equipment? 5 years? 10 years? 20 years?
- b) Is there sufficient current/planned space available for the storage and use of this equipment? If so, where will it be housed? If not, is there a proposed location and are there any costs associated with installation or modifications to the space?
- c) Are there operating costs and how will they be covered by the department?
- d) What will be required to maintain the equipment, such as regular servicing or upkeep? Who will perform maintenance, and what will the estimated costs be?

The life span of the equipment with proper maintenance and utilization can be easily 20-25 years according to the manufacturer.

Storage is not an issue as secured space already exists for the the FST and EMS Programs. No special installation needs are required or modifications to any space on campus.

There is limited operating costs associated with the use of the "PortaCount Pro+ Quantitative Respirator Fit Tester". It is anticipated that these costs will be minimal and will account for approximately \$50 a year and will be paid for out of existing EMS and future FST program operating costs.

Several Faculty will be trained to operate and maintain the equipment by the vendor. Faculty will not be seeking any compensation for the Training.

Visibility/Profile within Community

Is this a "flagship" item that will bring recognition/notoriety to the College or raise the stature of the program? Will it attract students and/or enhance the image of the College in the community because of its rare, one-of-a-kind status?

Our EMS program is already considered a Flagship Program with regards to the EMT Training Program. It is the "Clinical Observation" rotation opportunities that clearly set the Las Positas College EMT Program apart from others. The ability to meet the required "Respiratory Protection Fit Testing" regulatory standards now being enforced and requested by our contracted Hospital providers for students, is now necessary if we desire to continue allowing our students to have "Clinical Observation" opportunities. The purchase of this equipment will allow us to continue to offer our students these important opportunities.

Commitment to Sustainability

How does this equipment exceed basic sustainability goals and encourage renewable resources at the College? Is the design/operation of this item in keeping with the College's commitment to sustainable practices?

Currently the desire to purchase this equipment is based on the required need of our EMS Program, specifically allowing the EMT Class (EMS 81) the opportunity to continue providing our students "Clinical Observations" through our respective contracted Hospital Facilities. The purchase of this equipment will meet mandated "Respiratory Protection Fit Testing" by Federal and State Laws which students are required to have completed in order to participate in the "Clinical Observations" with our respective contract Hospital Facilities.

The current Las Positas College "Surgical Technology" Program is another Health Program where students are required to complete Hospital Observation and Clinical Rotations with their respective contract Hospitals. The mandated "Respiratory Protection Fit Testing" will also be provided to students in the "Surgical Technology" Program which is also mandated for their students by the same Federal and State Mandated Testing Guidelines.

The Las Positas College EMS "Paramedic Program" also has a requirement for Fit Testing for both the 400+ Hour Clinical Hospital Rotations required to be completed by students and also a 500+ hour Internship in the Field with an Advanced Life Support Ambulance Provider. Both entities will require the students to meet the Federal and State Mandated Testing Guidelines for Respiratory Protection. The Fire Service Technology Program will also be required to provide Respiratory Protection Fit Testing for all students of a future "Structure Firefighter I Academy" (Slated for January of 2014) this is a required application for Fit Testing SCBA's as students will be required to complete "Structural "Live Fire" exercises as a component of certification and meeting NFPA 1403 and CAL OSHA Guidelines. Having the ability to meet multiple program needs allows for a significant sustainability impact with this purchase.

Health, Safety & Security

Does this equipment address any health, safety & security concerns? If so, please explain below.

It allows for all students to have effective and proper fitting respiratory protection as mandated by regulatory bodies in the various risk environments in which they will be exposed to as a component of their training and instructional requirements of their respective courses and/or programs. Proper respiratory protection and fit testing is a mandated component of the respective Industries that the students seek specialized training and education in which they are seeking career opportunities.

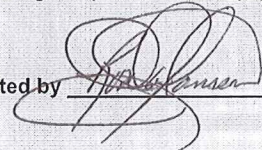
Meets Federal and State Mandates. "Federal Respiratory Protection Act"
NIOSH and CAL OSHA Fit Testing Mandates.

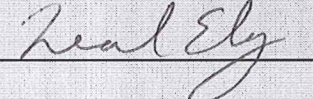
Meets contract Hospital requirements for Student Interns involved in "Clinical Observations and Rotations".

Reduces significantly to students, all risks through respiratory inhalation that students will be exposed to as a component of their "Clinical Observations and Rotations" required of their training and accrediting bodies for certifications including Title 22, NFPA Standards and State Fire Training.


Signatures (required)

(If requesting computer-related equipment/software, LPC IT Department Review is **required**.)

Requested by 

Dean/
Unit Head 

IT Department Signature _____

Vice President 

LPC VP Business/President _____

LPC Business Office Use (Account Number) _____

Ronald Johansen - RE: Contact Us Submission

From: "Korngable, Stacy"
To: "ryoung@laspositascollege.edu"
Date: 1/26/2012 1:12 PM
Subject: RE: Contact Us Submission
Attachments:

Good afternoon Robert-

You stated you needed information regarding N95 and SCBA fit testing. Attached are the fit test adapters we have available at TSI and I have also attached the spec sheet for our Model #8038 which has an N95 companion built in. The price of Model #8038 is \$12,810.00. If there is anything else you need, please let me know. Thank you!



Stacy Korngable
Inside Sales Representative

TSI Incorporated
Phone: 800-874-2811
stacy.korngable@tsi.com
www.tsi.com



From: no-reply@tsi.com [mailto:no-reply@tsi.com]
Sent: Wednesday, January 25, 2012 8:04 PM
To: Answers
Subject: Contact Us Submission

Contact Us Submission

First Name: Robert
Last Name: Young
Company: Las Positas College
Street Address: 908 Magnolia Dr.
Street Address 2:
City: Alameda
State: CALIFORNIA
Zip/Postal Code: 94502
Country: United States of America
Email Address: ryoung@laspositascollege.edu

Phone: 510-214-7718

Reason for Contact: Product Inquiry

Comments:

Need information for fit testing N-95 & SCBA respirators

TSI/SEO Parameters

Entry Time: 1/25/2012 7:56:52 PM

Entry URL: /portacount-respirator-fit-tester-8030/

Referral URL: <http://search.comcast.net/?cat=web>

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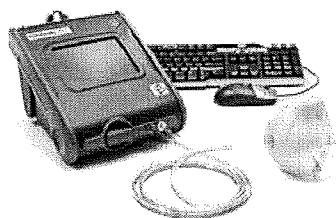
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PORTACOUNT Respirator Fit Tester 8038

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PRODUCT DETAILS

No other respirator fit tester can quantitatively fit test all types of respirators—gas masks, SCBAs, respirators, even N95 disposable (filtering-facepiece) respirators. The PORTACOUNT® Pro+ Respirator Fit Tester eliminates the guesswork associated with tedious and error-prone qualitative fit test methods. If the mask requires fit testing, count on the PORTACOUNT Pro+ fit tester 8038 to provide the fastest, easiest and best OSHA-compliant fit test method.

[Resources](#)[FAQs](#)

Features and Benefits

- Fit test ANY tight-fitting respirator including N95, P2 and P1 disposables
- Faster N95 fit testing time -- down from 10 minutes 24 seconds to 7 minutes 15 seconds
- Greater simplicity with the built-in N95 Companion™ technology
- Stand alone operation -- no external computer required
 - Use with external computer to generate reports and print fit test cards
- Able to perform N95 fit testing with much lower ambient particle concentrations
- Color touch screen
- OSHA-compliant for all respirators, including N95
- Measures fit factors greater than 10,000
- Switch between different respirator types in under a minute
- Automates fit testing with FitPro™ Fit Test Software
- [Interactive training tool for initial and follow-up training](#)

Applications

- Quantitative respirator fit testing (QNFT)
- Disposable filtering-facepiece fit testing for Series 100/99/95/P1/P2/P3/ HEPA masks
- Half-mask fit testing
- Full-face fit testing
- Gas mask fit testing
- PAPR fit testing
- SCBA fit testing

Included Items

- PORTACOUNT Pro+
- AC adapter with Universal Plug Set
- 8026 Particle Generator
- Alcohol cartridge
- Alcohol Fill Capsule
- Storage cap
- Two zero check, filters
- Model 8016 alcohol supplies
- 3/16 and 1/4 inch hose adapters
- Two spare alcohol wicks
- 100 sampling probes, probe insertional
- Neck strap
- Carrying case
- FITPRO Fit Test software CD
- Flash Memory Drive (1GB)
- USB cable
- Operation & service manual

- Two-year warranty

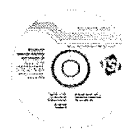
Download Software

- To download applicable software and/or firmware, please use the [Software/Firmware Selector](#).

To request information on TSI's PORTACOUNT® Respirator Fit Testers including instrument literature, a system demonstration, or a quotation, contact TSI today.

TSI offers PORTACOUNT Academy - a comprehensive training program. To enroll or request more information, [click here](#).

Accessories



FitPro Fit Test Software

[Learn More](#)



Particle Generator 8026

[Learn More](#)



Isopropyl Alcohol, 30-ml X 16 Bottles

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Related Products



PORTACOUNT Respirator Fit Tester 8030

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Products

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- Aerosol and Dust Monitors
- Aerosol Neutralizers
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- Flowmeters
- Fluid Mechanics Systems
- Fume Hood Monitors & Controls
- Indoor Air Quality Meters/Instruments

- Integrating Nephelometer
- Particle Counters
- Particle Sizers
- Primary Calibrators
- Respirator Fit Testers
- Room Pressure Monitors & Controls
- Thermal Anemometry Systems
- Ventilation Test Instruments
- Ventilator Test Systems



[Promotions](#)

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TSI Incorporated

500 Cardigan Road
Shoreview, MN 55126

Call Us Today!
800.874.2811

Contact Us



Fit Test Adapters & Probe Kits Available from TSI Incorporated

Revised 7/7/2009

Fit Test Adapters Available from Respirator Manufacturers

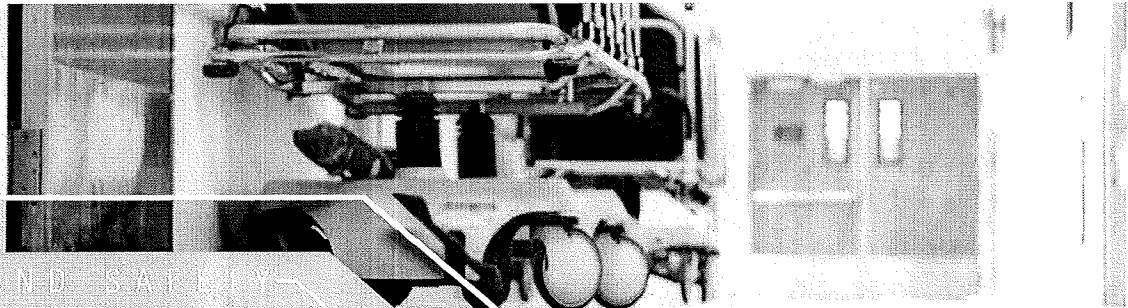
What You Need to Quantitatively Fit Test Various Brands of Self-Contained Breathing Apparatus Available in the USA (ITI-029)

Unless otherwise noted, each kit includes an adapter, P100 (HEPA) filter(s), and disposable components for 200 fit tests. Refill Kits include disposable components for an additional 200 fit tests.

Respirator Brand	Respirator Model (H=Half, F=Full)	Adapter Kit Part No.	Refill Kit Part No.
Filtering Face pieces	<u>Probe kit for disposable filtering face piece masks including N95 and HEPA (500 sets)--for use with the N95-Companion</u>	8025-N95 <i>Instructions</i>	8025-N95R
MSA	Comfo Series (H) Duo-Twin (F) Ultra Twin (F) MSA masks with large diameter screw-on filters	8025-14 (QuikChek™ II)	800785
	Ultravue (F) (including SCBA, with screw-in connection) Phalanx (F)	8025-15 (adapter temporarily replaces speaker diaphragm. Cannot be used if mask has ESP.) <i>Instructions</i>	Not Needed
	Ultravue (F) with 1/4 turn MMR	8025-15Q (same as 8025-15 but includes 1/4-turn fitting) <i>Instructions</i>	Not needed
	This adapter is best for making a dedicated test mask Advantage 1000 US Military M40, M42, M17, MCU-2A/P	8025-29 <i>Instructions</i>	Not needed
	Ultra Elite (F) 40 mm (with screw-in connection) ADVANTAGE 3100 (F)	8025-22 (QuikChek™ III) <i>Instructions</i>	800785
	Ultra Elite (F) with 1/4 turn MMR	8025-22Q (same as 8025-22 but includes 1/4-turn fitting) <i>Instructions</i>	800785
	Ultra Elite (F) Firehawk, Airhawk, and Blackhawk MMR version	See Appl. Note ITI-029	
	Millennium (F) with drink tube	8025-USMil <i>Instructions</i>	801633
	MSA Advantage (H,F) with bayonet filters	8025-30	800785



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HEALTH AND SAFETY



Features and Benefits

- Faster P1 and P2 fit testing time—down from 10:24 seconds to only 7:15 seconds
- Greater simplicity with the built-in N95-Companion™ technology
- Stand-alone operation—no external computer required*
- Reduces need for an external particle generator
 - Redesigned DMA for enhanced performance
 - Ability to perform fit testing on P1 and P2 respirators with much lower ambient particle concentrations
- Color touch screen
- Compliant with EU regulations for all respirators, including P1 and P2
- Measures fit factors greater than 10,000
- Switch between different respirator types in under a minute
- Automates fit testing with FitPRO™ Fit Test software
- Optional Card Printer allows you to print staff fit test cards

PORTACOUNT® PRO+ Respirator Fit Tester Model 8038

No other fit tester can quantitatively fit test all types of respirators—gas masks, SCBAs, respirators, even P1 and P2 disposable (filtering-facepiece) respirators. The PORTACOUNT PRO+ Respirator Fit Tester eliminates the guesswork associated with tedious and error-prone qualitative fit test methods. If the mask requires fit testing, count on the PORTACOUNT PRO+ fit tester to provide the fastest, easiest and approved fit test method.

PORTACOUNT PRO+ Respirator Fit Tester Kit Includes

- Carrying case
- AC adapter
- Alcohol supply (enough for approximately 240 hours of operation)
- FitPRO Fit Test Software on CD
- USB computer interface cable
- Operation and service manual

For additional software information, see the TSI FitPro Fit Test Software Specification Sheet.

*A computer is necessary for report generation and fit test card printing



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Specifications

Model 8038 PORTACOUNT PRO+ Respirator Fit Tester

Fit Factor Range

1 to greater than 10,000, 1 to 200 for P1 and P2 respirators

Typical Fit Factor Accuracy

±10% of reading

Respirator Facepieces that can be Fit Tested

Full-face elastomeric
Half-face elastomeric
EN series P3 filtering-facepiece
EN series P2 filtering-facepiece
EN series P1 filtering-facepiece

Fit Factor Measurement

Direct measurement of fit factor (C_{out}/C_{in})*

Dimensions (HWD)

17 cm x 22 cm x 24 cm (6.75 in. x 8.5 in. x 9.5 in.)

Weight

Unit Only 3.1 kg (6.8 lb)
With Standard Accessories and Case 8.2 kg (18 lb.)

Power

Autosensing 100 to 250 VAC, 50 to 60 Hz

Flow Rate

Sample 350 cm³/min
Total 1000 cm³/min (nominal)

Temperature Range

Operation 0 to 35°C (32 to 100°F)
Storage -40 to 70°C (-40 to 160°F)

Alcohol

Hours Per Charge 6 hours at 21°C (70°F)
Alcohol Type 99.5%+ reagent grade isopropyl

Calibrating Base

Dimensions (HWD) 23 cm x 36 cm x 53 cm
(9 in. x 14 in. x 21 in.)

Pass/Fail Setting

User-selectable: 0 to 10,000

Factory Recalibration Interval

One year

Warranty

Two years on workmanship and materials

Minimum PC Hardware Requirements for FitPro Fit Test Software

Microsoft® Windows® XP, Windows Vista®, or 7 (32-bit only) software

Optional Accessories

Model 8907 Fit Test card printer
Mask Sampling Adapters for select respirator models

*Mask leakage is measured simultaneously while test subject moves and breathes.

Model 8038 PORTACOUNT® Pro+ Respirator Fit Tester is patented under U.S. Patent No. 6,125,845.

TSI, the TSI logo, FitPro, N95-Companion, and PORTACOUNT are trademarks of TSI Incorporated.
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