



SAFETY SERVICES

***Rentals, Inspection, Maintenance,
and Turnaround Support***





WE KNOW WHAT'S AT STAKE.

The job can often be dangerous. When protecting yourself and your workers, you need more than just equipment, you need a safety solution. One complete with on-site safety evaluations, cutting edge protective products and engineered systems, hands-on training, and the knowledge and expertise that can only come from over 100 years of experience in protecting workers. You need a company who gives you the power to do your job safely.

That's MSA – **The Safety Company**



ALTAIR® 4XR
MULTIGAS DETECTOR



V-FIT™
SAFETY HARNESS



V-EDGE™ PERSONAL
FALL LIMITER (PFL)

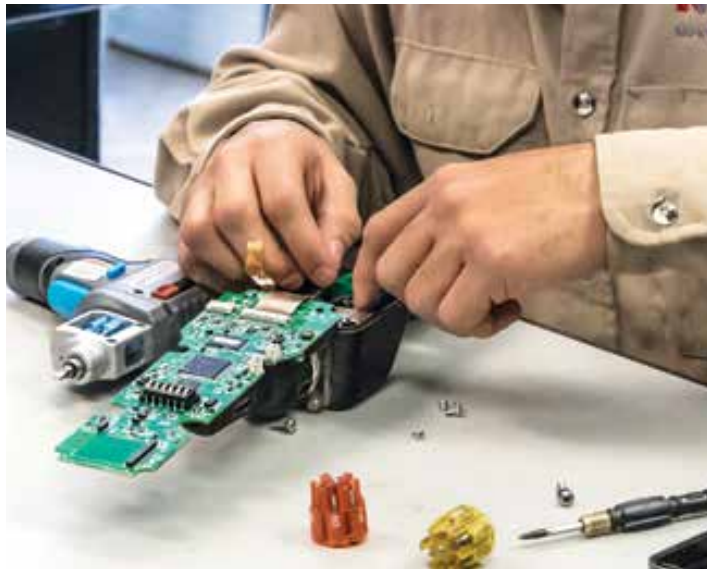


V-GARD® MATTE
HARD HAT

SAFETY SERVICES

Rental, Repair, And Maintenance

TCFS provides rental, inspection, repair, and maintenance of life-saving equipment. Our carefully trained technicians and standard operating procedures ensure that our equipment meets manufacturer standards and customer expectations.



Instrumentation

TCFS offers personal single-gas and multi-gas monitors, photoionization detection monitors (PIDs), area monitors, benzene monitors, and confined space monitors, for sale or rent.

Our service shops are fully equipped with factory-authorized testing equipment and an extensive inventory of replacement parts and calibration gases. We offer all standard mixtures for gas detector calibration, as well as exotics and custom blends, in all cylinder sizes.

MSA Altair® 5X Multigas Detector

- Standard 4 Gas (LEL, O₂, CO, H₂S)
- NO₂, NH₃ and other toxic sensors
- Advanced PID and IR sensor options
- Includes color display, 10 ft Sampling line and 1 ft Probe
- Ideal for confined space where there is no direct line of sight



MSA Altair® 4XR Multigas Detector

- Standard 4 Gas (LEL, O₂, CO, H₂S)
- SO₂, NO₂ sensors optional
- Rapid response sensors
- Durable personal monitor with rechargeable batteries
- 24 hr run time



MSA Galaxy® GXS Automated Test System

- Available for Altair 4XR and Altair 5X Multigas Detectors
- Color Touch Screen
- Test up to 10 gas detectors simultaneously



Industrial Scientific MX6 iBrid® Multigas Monitor

- Monitor up to 6 gases
- 24 sensor options including PID and IR
- Simplified maintenance and reporting with DSXi Docking Station



Industrial Scientific Ventis® MX4 Multigas Monitor

- Light weight personal monitor
- Monitor up to 4 Gases
- LEL, O₂, CO, H₂S
- Available with pump and probe
- Simplified maintenance and reporting with DSXi Docking Station



RAE Systems UltraRAE 3000+ Portable VOC Monitor

- Accurate measurement of VOCs from .01 to 10,000 ppm
- 3-second response time for VOCs
- Correction factors for more than 350 compounds
- Delivers accurate measurement of benzene from 10ppb to 200ppm



Dräger X-zone® 5500 Area Monitor

- Rapid sensor response time
- Detect up to 6 gases
- Highly flexible fenceline configurations
- Easy deployment and set up
- Operates in combination with Dräger X-am® 5000 gas detection instruments



Honeywell BW™ Max XT II Multigas Detector

- Standard 4 gas detector
- Motorized pump allows use of sample line and probe
- Can also be used as a personal monitor
- Compatible with the MicroDock II calibration and bump testing system



Calibration and Maintenance Program

Many customers utilize our monthly gas detector program, in which a TCFS licensed and factory-trained electronics technician performs field repairs to monitors, maintains monitor docking stations, and calibrates each customer-owned gas detection monitor. The calibration report is provided electronically, providing the customer with an independent and traceable record of compliance.

During our monthly visits, customers utilize our technicians as a point of knowledge to answer user questions on gas detection and to troubleshoot any issues or inefficiencies with the customers equipment or gas detection program.

Breathing Air Capabilities

TCFS has various options to provide the most effective solution for your breathing air requirements, from a simple 2-bottle cart with 120 cubic feet of breathing air to a tube trailer with 165,000 cubic feet of breathing air. Our responsibility is to provide quality, certified Grade D or better breathing air in a size and configuration to meet your needs.

Breathing Air Certificates of Analysis

We exceed standard requirements for testing and analysis of breathing air. Breathing air is tested through our own in-house processes, as well as by the Lab On Locale™ portable gas analysis system or other 3rd party certifications. Certificates of analysis (COAs) are provided for all shipments of breathing air.

Breathing Air Volume Requirements

There are many factors that influence the safe consumption of breathing air. These factors include the type of respirator, the adjustable flow rate, the number of supplied users, and the breathing rate/capacity of the respirator wearer. Give Texas Commercial Fire & Safety a call to help you select the most effective solution based upon your unique needs.



Tube trailer

BREATHING AIR CONFIGURATIONS

- 2-bottle carts (90 or 300 cu. ft. cylinders)
- 6 and 12 packs (1,800 or 3,600 cu. ft.)
- 12- and 20-bottle trailers (3,600 to 6,000 cu. ft.) as well as space to store equipment
- CUBe module (86,000 cu. ft.)
This lightweight container (12 ft. X 10 ft. X 10 ft.) is mounted via cam-locks on a goose-neck trailer and can be lifted off the trailer if space is a concern.
- Tube trailers (165,000 cu. ft.)
- Kodiak low-pressure compressor trailer – provides up to 400 SCFM of breathing air at 132 psi after filtration. For larger breathing air jobs, this trailer can provide considerable savings, as well as increased safety from not having to move equipment in and out of the work site.



20 bottle trailer

BREATHING AIR CONSUMPTION (CFM) GUIDELINE

Air Storage System	Storage Capacity	80% Swap-out	Number of Respirator Users							
			2		10		40		80	
	Cubic feet of air		Scott	3M	Scott	3M	Scott	3M	Scott	3M
	Hours of air supply with 80% swap-out									
2-Bottle cart	600	480	2	0.4	0.4	0.1	0.1	0	0.1	0
12-Pak	3,600	2,880	12	2.7	2.4	0.5	0.6	0	0.3	0
20-Bottle trailer	6,000	4,800	20	4.4	4.0	0.9	1.0	0	0.5	0
CUBe	86,000	68,800	287	63.7	57.3	12.7	14.3	3	7.2	2
Tube trailer	159,000	127,200	530	117.8	106.0	23.6	26.5	6	13.3	3
Kodiak (400 cfm) 10 hour shift	240,000	240,000	1000	222.2	200.0	optimal				na
Scott Airline with escape air usage in cfm 2			Note: Will fluctuate with breathing rate, pressure, and use of purge							
3M welding mask air usage in cfm 9			Note: Respirator is approved for flow rates from 4 - 15 cfm							



Worker with 12 cylinder pack



CUBe Module

RESPIRATORY EQUIPMENT

Texas Commercial Fire & Safety provides full line sales, repair service and rental items from the most recognized manufacturers of breathing air equipment including:

3M	Scott-3M	Air Systems	MSA
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- 30-minute SCBA Air Packs
- Emergency 5-minute escape airline units
- LP & HP breathing air hose
- Airline respirators
- Welding respirators
- Breathing masks/facepieces
- 5-minute ELSA escape respirators
- Powered air purifying respirators (PAPR)
- Breathing air boxes

Kodiak Breathing Air Compressor Trailer

TCFS's Kodiak breathing air system is a cost-effective solution for breathing air requirements.

The Kodiak is a low-pressure (132 psi) breathing air compressor system that delivers 400 SCFM of Grade D breathing air after filtration. Inlet air is monitored for CO₂, LEL CO, and H₂S. Breathing air is continuously monitored for O₂, CO, CO₂, and moisture via a fixed, multi-channel analyzer.

Twin air filter/dryer towers deliver the Grade D breathing air to two 240 gallon tanks (480 gal total), which act as storage/buffer to smooth the supply of air downstream to air storage pots, manifolds, and respirators.

Features

The Kodiak breathing air system provides up to 400 SCFM with a back-up connection to 12 packs or a tube trailer. The two compressors can be run independently from one another or in tandem. When running independently the second compressor automatically starts if the first compressor fails. If both compressors shut down or pressure drops below 120 psi, a pressure regulator diverts air from the back-up connection to ensure that users have adequate air supply.

COST ANALYSIS EXAMPLE

- 50 workers @ 4 SCFM, working 8 of 12 hours per shift, for 2 shifts
- 192,000 SCFM per day would require 1.5 tube trailers per day
- Cost would be approximately \$4,250 for air each day for tube trailers



Kodiak low-pressure compressor trailer

Benefits

TCFS's system provides a safe, efficient, and cost-effective breathing air supply. It eliminates the requirement of constantly moving large tube trailers in and out of the site, which can cause work stoppage and safety issues related to moving vehicles when contractors are working.

SPECIFICATIONS:

- 16 ft. enclosed trailer with swing doors and ramp
- Man-door on front right side
- Trailer dimensions: 17 ft. 6 in. (20 ft. with ramp down) X 8 ft. 6½ in. X 8 ft. (LxHxW)
- Two compressors, 220 SCFM at 132 psi
- Emergency crossover valve system
- Twin regenerative dryer/filtration towers
- Multi-gas analyzer for O₂, CO, CO₂, and moisture with audible and visual alarms
- Two 240 gallon receivers for air storage
- Voltage: 460 VAC/3/60 Hz, 200 amp



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On-Site Safety Stores

Texas Commercial Fire & Safety has operated on-site safety stores and service centers for many years at customer facilities across the U.S. These locations are stocked with day-to-day materials and offer many opportunities for overall cost savings.

On-site safety stores may be manned with TCFS personnel, unmanned, or may utilize industrial vending technologies to issue, replenish, and manage inventory. They also serve as a base for our trained safety technicians to perform inspection, service, fit testing, and other duties.

EQUIPMENT:

- Plant specified consigned PPE inventory
- Certified technicians maintain customer owned equipment
- Dedicated rental safety equipment
- E-Catalog operating platform
- Single monthly summary billing
- Fire Resistant Clothing (FRC) program
- Respirator fit testing
- Plant employee fall protection inspections
- Prescription eyewear programs
- Asset tracking
- Plant turnaround focal point



Turnaround & Shutdown Services

Texas Commercial Fire & Safety offers on-site mobile and stationary facilities to support your peak requirements for rental equipment, personnel, and safety products. You can count on us to provide turnaround solutions that will be accident free, on budget and with no work stoppages due to equipment being unavailable.

Our scalable resources across several Gulf Coast safety centers allows TCFS to rapidly staff and equip any unscheduled plant outage or emergency. By utilizing the TCFS turnaround tracking software, all product issues and equipment rentals can be tracked by company, contractor, employee and supervisor. Thus, helping customers maintain control, increase accountability and minimize lost equipment.

WORLD-CLASS SOLUTIONS:

- *Safety equipment rental*
- *Equipment issue and service trailers*
- *Breathing air bottles, racks, trailers and compressors*
- *Safety technicians and safety personnel*
- *Permit writers*
- *Compressor & bottle watch*
- *Fit testing and equipment training*
- *Equipment tracking*
- *Expenditure tracking and reporting*



Miscellaneous Safety Equipment

We understand the requirements for life-saving equipment during intense projects. TCFS is equipped to meet peak demands, specialized applications, and demanding schedules with a full line of safety gear:

- Portable safety eyewash and showers
- Fall protection harnesses, lanyards, retractable lifelines, tripods, and retrievable lifelines
- Explosion proof portable lighting
- Emergency lighting
- Ventilation equipment, ram fans, venturi air movers, and electric blowers
- Cooling vests
- Portable fire extinguishers





SRx Prescription Eyewear

TCFS provides an extensive selection of prescription safety glasses to meet demanding industrial eye protection requirements. We bring high-value safety glasses with functionality and style to assist in protecting your workers, including lenses from the world's largest industrial ophthalmic provider and frames from various manufacturers.

Providing safety glasses to your employees can be an involved and complicated process. Every employee's safety eyewear is unique to them, and selection and fitment are essential for comfortable wear and clear vision.

Single-source solution

TCFS's SRx program is a single-source solution to assist in the management of prescription eyewear for your employees' workplace and home needs. Programs are established to your requirements for styles and options.

We have a vast network of dispensers across the U.S. to provide a high level of quality and convenience of service. We offer on-site dispensing where applicable, eliminating your employees' need to go to the dispenser's office. TCFS offers frames from the following well-known brands:

Honeywell
Uvex, Titmus

Hudson Optical
ArmouRX

Hilco OnGuard
Wiley X

We are proud to certify that all glasses, lens materials, and coatings have been tested and meet or exceed ANSI Z87.1-2015 requirements.

Program Benefits

- Customizable, with a broad product offering
- Consistency for customers with multiple sites
- Ease of implementation
- Large network of dispensers
- Convenience for customers and employees
- Competitive and consistent pricing for all of your sites



OUR PRESCRIPTION SAFETY EYEWEAR PROGRAM PROVIDES:

- *Top quality optical lenses*
- *Performance enhancing lens treatments*
- *Industry recognized safety frame brands*
- *Field support teams*
- *Largest customer service unit in the industry*
- *Consultation from a staff of safety eyewear experts*



Contact Texas Commercial Fire & Safety today, and let us put together a SRx program for you.

Call us at 1 (800) 970-8237

or email us at:

jonathan.fehmel@tcfsfireandsafety.com

MOST POPULAR RENTAL ITEMS

INSTRUMENTATION	
SAP	Description
6000925	BW GasAlert MAX XT II (4-Gas)
6000971	BW Gas alert Clip Extreme - H2S disposable Gas Monitor
6000994	BW MicroDock 2- Docking Station
6001411	BW Gas alert Clip Extreme - CL2 disposable Gas Monitor
6001484	BW Gas alert Clip Extreme - CO disposable Gas Monitor
6001485	BW Gas alert Clip Extreme - O2 disposable Gas Monitor
6001049	Draeger XAM 5000 4 Gas Monitor No Pump
6001050	Draeger XZONE W/ Battery & Charger
6001371	Draeger XZONE W / Battery & Charger and XAM 5000 Monitor
6001506	Draeger XAM 5000 4 Gas Monitor W/Pump
6001507	Draeger XAM 5000 5 Gas Monitor No Pump
6001508	Draeger XAM 5000 5 Gas Monitor W/Pump
6001381	Eagle RKL II multigas instrument
6000914	ISC Pump
6000915	ISC Docking Station for MX6
6000916	ISC Single Unit Charger
6000917	ISC Spare Battery
6000918	ISC MX6 4-Gas LEL, CO/H2 Null, H2S, O2 Diffusion
6000988	Ventis MX4 4 Gas Monitor & Charger w/ pump
6000989	MX4 4 Gas Monitor (Less Pump) & Charger
6001020	ISC MX6 4-Gas LEL, CO/H2 Null, H2S, O2 w/ pump
6001021	ISC MX6 6-Gas LEL, SO2, CO, H2S, O2, PID Pumped
6001043	ISC Sampling Probe
6001044	ISC MX6 5-Gas LEL, CO, H2S, O2, PID Pumped
6001045	ISC BM25 Area Monitor
6001513	MX4 3 Gas Monitor (Less Pump) & Charger
6001514	ISC MX6 5-Gas LEL, CO/H2 Null, H2S, O2, SO2 w/ pump
6001515	ISC MX6 6-Gas
6001561	ISC Docking Station for Ventis
6001572	ISC Radius Rental
6000920	MSA Altair 5X – 4 Gas w/ pump
6000921	MSA Galaxy
6001015	MSA Altair 4X – 4 Gas W/Pump
6001520	MSA Altair 4X – 4 Gas No Pump
6001521	MSA Altair 5X – 5 Gas (O2,LEL,CO/H2S,SO2) W/Pump
6001522	MSA Altair 5X – 5 Gas With PID & Pump
6000922	UltraRAE 3000 – 9.8eV PID
6000979	MultiRae Plus (LEL,O2,H2S,CO,PID-10.6)
6000991	Area RAE
6001524	MultiRae Plus PID Gamma
6001525	UltraRAE 3000 – 11.7 eV PID

FALL PROTECTION

SAP	Description
6000951	Harness Rental – Single Dorsal D-Ring - Universal fit
6000952	Lanyard Shock Absorbing Snap Hook
6000953	Lanyard Double Leg – 6 ft Tie Back
6000954	Lanyard Twin SRL
6000955	Lifeline 50 ft Rope with latch hook
6000956	Retractable Lifeline 85 ft – SRL
6000957	Retractable Lifeline 50 ft – SRL
6000958	Retractable Lifeline 30 ft – SRL
6000959	Retractable 3-Way Retrievable Lifeline 50 ft
6000960	Retractable 3-Way Retrievable Lifeline 85 ft
6000961	Retractable 3-Way Retrievable Lifeline 130 ft
6000962	Tri-Pod 7 ft
6001005	Chain Ladder 50 ft
6001006	Tri-Pod 9 ft
6001065	Lifeline 100 ft Rope with latch hook
6001066	Chain ladder 25 ft
6001345	Lanyard, 6 ft Double Lanyard with Rebar Hook
6001489	Boatswain Chair
6001491	Retractable Lifeline 100 ft – SRL
6001492	Retractable Lifeline 130 ft – SRL
6001493	Retractable Lifeline 6 ft – SRL
6001529	Cable Ladder 25 ft
6001661	Fall Limiter Personal Tieback Mini PFL 9

MISCELLANEOUS

SAP	Description
6000965	Blower Rental Explosion Proof
6000966	Air Horn 6 inch
6000967	Saddle vent
6000968	Portable Eyewash - 15 Gallon
6000969	Ansul 20# Cartridge Op
6000981	Fire Extinguisher 20# Stored Pressure
6001007	12 Volt drop light (explosion Proof)
6001012	Cool Vest – Gel
6001024	Cool Vest – Vortex
6001322	Brick Light – Exp. Proof, 100 ft cable, 9610C w/ knuckle Handle
6001351	HEPA Vac 14 Gallon Rental (HEPA Filter Sold Separately)
6001361	Fire Watch / Hole Watch Kit – 5-Gal. Bucket, Altair 5X, Air Horn, Clip Board, Safety Vest, & 20lb Extinguisher.
6001461	Jet Fan 20 inch
6001481	Air Horn 12 inch
6001506	Portable Eyewash Gravity Fed 14 Gal
6001551	Swing Gate 20 inch for Jet Fan
6001611	Truck Rental (1/2 Ton or 3/4 Ton)
6001612	Stock-N-Roll Software Rental

RADIOS

SAP	Description
6001517	Radio Motorola 900 MHz
6001518	Radio Motorola UHF I/S
6001519	Radio Repeater Motorola

RESPIRATORY	
SAP	Description
6000928	Scott 5 Min. Ska Pak
6000929	Scott Air Pak
6000931	Scott Hose 50 ft
6000932	Scott Hose 100 ft
6000933	High Pressure Hose 50 ft
6000934	High Pressure Hose 100 ft
6000935	MSA Premaire 5 Minute Work Unit
6000936	MSA Ultra 30 Minute Air Pak
6000937	Manifold Killer B – 8 man W/LP Regulator
6000938	Manifold 5 man
6000939	Regulator – Low Pressure
6000940	Regulator – Low Pressure with Alarm
6000944	Breather Air Box 50 cfm
6000945	Breather Air Box 100 cfm
6000946	Scott 15 Min. ELSA (Escape Respirator)
6000947	Scott 5 Min. ELSA (Escape Respirator)
6000948	Scott Weld-O-Vista Facepiece (Includes Facepiece & Shroud)
6000949	Scott full facepiece cartridge adapter for 642 series (less mask)
6000973	Scott Full Face Mask
6000977	Scott Airline
6000982	Scott 30 Min. Bottle
6000983	Scott 5 Min. Bottle 2216 psi
6000998	MSA 5 Min. Bottle
6000999	MSA Hose 50 ft
6001000	MSA Full Face Mask
6001009	3M Full Face Mask – 6000 Series
6001010	3M Dual Airlines (Includes Yoke and Regulator)
6001016	Trailer - 20 Bottle Breathing Air - (Air Charge Extra)
6001017	6 Pack Breathing Air – (Less Regulator)
6001018	12 Pack Breathing Air – (Less Regulator)

RESPIRATORY	
SAP	Description
6001019	2 Bottle Cart – (2) 300 Cubic Foot Cylinders – (Less Regulator)
6001023	Multi- Pak Two Bottle Air Cart (4500 psi 60 min.)
6001052	Hose – Low Pressure 3/4 inch X 50 ft
6001053	Hose – Low Pressure 2 inch X 50 ft
6001058	Trailer – 20 ft Cleaning / Issue
6001060	Kodiak – Breathing Air Compressor Trailer 2 Compressors 400 CFM
6001062	Tube Trailer – Jumbo – 159,000 Cu. ft – (Air Charge & Delivery Extra)
6001063	CUBe – Breathing Air Trailer - 86,700 Cu. ft
6001343	3M Full Face Mask – 7000 Series (Compatible w/3M Dual Airlines)
6001344	3M Welding Adapter for 7000 Series Full Face Masks
6001353	Trailer-20 Btl., 3-Ska Paks, 30 Min-Air Pak, 8-Man Manifold, 9-50 ft LP Hose 2-100 ft HP Hose,
6001495	Hose – Low Pressure 3/4 inch X 25 ft
6001496	Kodiak – Breathing Air Compressor Trailer 1 Compressors 200 CFM
6001497	300 CF Cylinder 2400 psi (Less Regulator)
6001500	Manifold Killer B – 8 man No Regulator
6001501	Manifold Killer B – 8 man W/High Volume Regulator
6001502	Regulator - High Volume / Low Pressure
6001504	Whip Check for 2 inch Hose
6001505	Whip Check for 3/8 inch - 3/4 inch Hose
6001621	MSA small Ultra Elite mask
6001622	MSA medium Ultra Elite mask
6001623	MSA large Ultra Elite mask
6001624	MSA Welding adaptors
6001625	MSA Cartridge adaptors
6001680	Scott 5 Min. Bottle 3000 psi
7001589	Trailer – 53 ft Turnaround Trailer

Full Line Safety Service Branches

Bay City, TX
 3587 FM 2668
 Bay City, TX 77414
 1 (800) 970-8237

Port Lavaca, TX
 3731 TX 35
 Port Lavaca, TX
 1 (800) 970-8237

Contact us at one of our service branches or

Toll Free: 1 (800) 970-8237

Email: jonathan.fehmel@tcfsfireandsafety.com

www.tcfsfireandsafety.com



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Bay City, TX

3587 FM 2668
Bay City, TX 77414
1 (800) 970-8237

Port Lavaca, TX

3731 TX 35
Port Lavaca, TX 77979
1 (800) 970-8237

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Email:
jonathan.fehmel@tcfsfireandsafety.com



WE WANT TO HEAR FROM YOU!

Please send customer service comments and questions to

jonathan.fehmel@tcfsfireandsafety.com

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