WE HAVE HEARD YOU!

Elgin Sweeper classes are changing for this year. We are offering a number of new classes to help you improve your ability to diagnose and repair machines, and have revised the operation and maintenance classes to reduce the amount of classes your technicians will have to attend to be able to understand, maintain, and repair Elgin Sweepers. Watch for even more new classes next year.

Vactor classes are changing for this year. We are offering new classes to help you improve your ability to diagnose and repair machines. We are upgrading the training to accommodate the new line of Vactor and Guzzler products.

Class offering:

- Pelican Sweepers for Mechanics (3 days)
- Truck-Mounted Mechanical Sweepers for Mechanics (3 days)
- Crosswind Sweepers (2 days)
- Whirlwind/Megawind Sweepers (2 days)
- Broom Badger for Dealer Mechanics (2 days)

Class offering:

- Vactor 2100 Plus for Mechanics (4 days)
- Vactor 2100 Plus for Operators (3 days)
- HXX II for Operators (½ day) and Mechanics (2 ½ days)
- Guzzler Evolution for Operators (½ day) and Mechanics (2 ½ days)
- Guzzler NX for Operators (½ day) and Mechanics (2 ½ days)

Registration is available online at [www.esgtechtraining.eventbrite.com](http://www.esgtechtraining.eventbrite.com)

Complimentary service training is available to our dealer’s customers on products that have been delivered in the last 12 months. This entitles the customer to send one service technician to training at no additional cost, additional attendees will be charged at our normal dealer rate.

**Note:** ESG Training reserves the right to cancel classes 4 weeks prior to the start of class if there is insufficient enrollment. Additional classes will be offered when possible if classes fill early.
TRAINING INFORMATION: ELGIN PRODUCTS

All classes at Elgin Sweeper start on Tuesday, and attendance is 8:30 – 4:00 all days. Training will consist of classroom and hands-on instruction. Training manuals will be provided. Class size will be limited to 15 in order to assure individualized instruction.

Registration is available on line at www.esgtechtraining.eventbrite.com

Dress: Casual work clothes, safety toe shoes (if available – shoe covers will be supplied if needed)

Cost: $700 for three days, $550 for two days. This includes lunch each day, refreshments in the classroom, and training material.

Location: Elgin Sweeper Co.
1300 Bartlett Road
Elgin, IL 60120

Steve Dunning is our new Technical Training Instructor for Elgin products. As a technician in the early 1980’s, he worked on his first Elgin sweeper, a Pelican. After ten years as a technician, Steve moved to fleet maintenance management. That’s where he started training, helping technicians with ASE Certification.

In 1999, Steve moved to Kubota Engine America as Service Engineer and Service Trainer. In thirteen years at Kubota, he taught classes for equipment manufacturers and engine distributors in the US, Mexico, and Europe. His classes were also used by Kubota in Japan. Moving up to Assistant Manager of Technical Service Training in 2011, Steve was responsible for all the training on the new electronically controlled diesel and gaseous-fueled engines. His training continues to be used to train Kubota Service Engineers and customers worldwide.

Now at Elgin Sweeper, Steve is looking forward to training on the whole machine, rather than just the engine.

Steve is married with two daughters. Both daughters followed his interest in teaching. His older daughter is currently teaching at an elementary school. The other is a sophomore on the Drumline for the University of Iowa Hawkeye Marching Band studying with hopes to teach at the college level.
TRAINING INFORMATION: VACTOR PRODUCTS

Vactor Manufacturing classes for the 2100 Plus Mechanics start on Mondays at 8:30 AM and go until 4 PM on Thursday. Training will consist of classroom and hands-on instruction. Training manuals will be provided. Class size will be limited to 15 in order to assure individualized instruction.

Vactor 2100 Plus Operators classes will start on Tuesday mornings at 8:30 AM and go until 4 PM on Thursday. Training will consist of classroom and hands-on instruction. Training manuals will be provided. Class size will be limited to 15 in order to assure individualized instruction.

Guzzler Evolution Operators and Mechanics classes will start on Tuesday mornings at 8:30 AM and go until 4 PM on Thursday. Training will consist of classroom and hands-on instruction. Training manuals will be provided. Class size will be limited to 15 in order to assure individualized instruction.

Dress: Casual work clothes, safety toe shoes (if available – shoe covers will be supplied if needed)
Cost: $850 for four days, $700 for three days. This includes lunch each day, refreshments in the classroom, and training material.

Location: Vactor Manufacturing
1621 S. Illinois St.
Streator, IL. 61364

Jimmy Broyles is the Training Instructor for Vactor Manufacturing and CBT and has been employed by Federal Signal since November 2004. He has been working on Elgin products since 1975 when he was with the United States Air Force and on the Vactor products since 1994 at the City and County of Denver. He was a full-time technical trainer at Denver Automotive and Diesel College from 1986 to 1988 before being hired by Denver City and County. He continued to teach at the Auto and Diesel College for an additional 3 years in a part-time role. He was master ASE-certified in automotive and heavy trucks and assisted many of his Denver co-workers in attaining their ASE certifications.

Jimmy is responsible for training customers in-house and for the development of the on-line competency-based training on the Federal Signals ESG University website. He is assigned to the Vactor manufacturing facility where he has access to engineering, technical publications and service to assist the development of all Vactor training.

Jimmy is a Colorado native and relocated to Ottawa, Illinois in 2006 to work in the Vactor training department. His love of training extends beyond his duties with Federal Signal: he also teaches Tae Kwon Do and Kendo to children and adults at DIMA in Ottawa and assists with the Motorcycle Safety Program through Illinois State University and Illinois DOT.
PELICAN SWEEPERS FOR MECHANICS

Objectives:

This class is designed to help mechanics set, maintain, and repair the mechanical sweeper for the best operation. Setting of brooms and conveyors will be discussed with emphasis on safety, proper operation, maintenance, and repair. Class will include troubleshooting of electrical, electronic, and hydraulic systems related to sweeping functions. Hydrostatic drives and hubs will also be reviewed for troubleshooting and repair.

- Safety
- Sweeper Operation, Identifying main components
- Operating Parameters – RPM and Load
- Main (Center) Broom Settings and Operation
- Side Broom Settings and Operation
- Conveyor systems – settings, operation, repair
- Troubleshooting sweeping issues
- Emptying the hopper
- Water pumps and spray nozzles
- Troubleshooting Water System issues
- Waterless sweeper components and operation
- Maintenance of the sweeper – maintenance schedule
- Electrical systems
- Electronic Controls and the Electronic Service Tools
- Hydraulics and Hydrostatic Drive
- Hubs – troubleshooting and repair

Who should attend: Experienced operator/mechanics, maintenance personnel, and mechanics who want a better understanding of the Elgin Pelican sweeper.

Dates Offered: 
April 9 – 11
August 6 – 8
TRUCK-MOUNTED MECHANICAL SWEEPERS FOR MECHANICS

Objectives:
This class is designed to help mechanics set, maintain, and repair the truck-mounted mechanical sweeper for the best operation. Setting of brooms, elevators, and conveyors will be discussed with emphasis on safety, proper operation, maintenance, and repair. Class will include troubleshooting of electrical and hydraulic systems related to sweeping functions.

- Safety
- Sweeper Operation, Identifying main components
- Operating Parameters – RPM and Load
- Main (Center) Broom Settings and Operation
- Side Broom Settings and Operation
- Conveyor systems – settings, operation, repair
- Elevator systems – settings, operation, repair
- Troubleshooting sweeping issues
- Emptying the hopper
- Water pumps and spray nozzles
- Troubleshooting Water System issues
- Waterless sweeper components and operation
- Maintenance of the sweeper – maintenance schedule
- Hydraulics and/or Pneumatics
- Electrical Systems
- Electronics and the Electronic Service Tool

Who should attend: Experienced operator/mechanics, maintenance personnel, and mechanics who want a better understanding of the Elgin mechanical sweeper line.

Dates Offered: October 22 – 24
BROOM BADGER SWEEPERS FOR DEALER MECHANICS

Objectives:

This class is designed to familiarize the dealer mechanic with the new Broom Badger sweeper. We will include setting and maintaining the sweeper for the best operation. Setting of brooms, and elevators will be discussed with emphasis on safety, proper operation, maintenance, and repair. Class will include troubleshooting of electrical and hydraulic systems to sweeping functions.

- Safety
- Sweeper Operation, Identifying main components
- Operating Parameters – RPM and Load
- Main (Center) Broom Settings and Operation
- Side Broom Settings and Operation
- Elevator systems – settings, operation, repair
- Troubleshooting sweeping issues
- Emptying the hopper
- Water pumps and spray nozzles
- Troubleshooting Water System issues
- Maintenance of the sweeper – maintenance schedule
- Hydraulics and/or Pneumatics
- Electrical and Electronics

Who should attend: Dealer mechanics and maintenance personnel who want to be prepared to maintain and repair this new Sweeper in the Elgin mechanical sweeper line.

Dates Offered: June 11 – 12
CROSSWIND SWEEPERS

Objectives:

This class is designed to help mechanics set and maintain the Regenerative Air sweeper for the best operation. Setting of brooms, nozzles and pickup heads will be discussed with emphasis on safety, proper operation, maintenance, and repair. Class will include basic troubleshooting of electrical and hydraulic systems related to sweeping functions. We will discuss use of and troubleshooting of the wandering hose and high pressure wash system. Discussion will include how to set the air sweeper for various applications.

- Safety
- Regenerative Air Sweepers – Identifying main components
- Sweeper Operation
- Setting and Operating the Side Brooms
- Setting and Operating the Pickup Head
- Setting and Operating the Center Broom
- Impellers - Air System Operation
- Troubleshooting Regenerative Air sweeping issues
- Maintenance and Maintenance Schedule
- Hydraulics and Pneumatics
- Electrical Systems
- Electronics and the Electronic Service Tool
- Water pumps and spray nozzles
- High pressure water and nozzles
- Troubleshooting Water System issues
- Operating the Wandering Hose and High Pressure Wash System
- Troubleshooting the Wandering Hose and High Pressure Wash System
- Emptying the hopper

Who should attend: New and experienced operators, maintenance personnel, and mechanics who want a better understanding of the Elgin Crosswind sweeper line.

Dates Offered: May 14 – 15
Objectives:

This class is designed to help mechanics set and maintain the Vacuum sweeper for the best operation. Setting of brooms and nozzles will be discussed with emphasis on safety, proper operation, maintenance, and repair. Class will include basic troubleshooting of electrical and hydraulic systems related to sweeping functions. We will discuss use of and troubleshooting of the wandering hose and high pressure wash system. Discussion will include how to set the air sweeper for various applications.

- Safety
- Vacuum Sweepers – identifying main components
- Setting and Operating the Side Brooms
- Setting and Operating the Nozzle(s)
- Setting and Operating the Center Broom
- Impellers, Air System Operation
- Maintenance and Maintenance Schedule
- Troubleshooting Vacuum sweeping issues
- Hydraulics and Pneumatics
- Electrical Systems
- Electronics and the Electronic Service Tool
- Water pumps and spray nozzles
- High pressure water and nozzles
- Troubleshooting Water System issues
- Operating the Wandering Hose and High Pressure Wash System
- Troubleshooting the Wandering Hose and High Pressure Wash System
- Emptying the hopper

Who should attend: New and experienced operators, maintenance personnel, and mechanics who want a better understanding of the Elgin vacuum sweeper line.

Dates Offered: September 10 – 11
VACTOR 2100 PLUS OPERATORS

Objectives:

This 3 day class is designed to help operators and new mechanics set and maintain the Vactor 2100 Plus for the best operation. Engaging the hydraulics, rodder pump and vacuum systems (fan and PD units) will be discussed with emphasis on safety, proper operation, maintenance, and repair. Class will include basic troubleshooting of electrical and hydraulic systems related to sewer cleaning. We will discuss use of and troubleshooting of the boom and high pressure water system. Discussion will include how to set the Vactor unit up for various applications.

- Pretrip unit inspections
- Arriving at the job site and man hole setup
- Job site safety
- Nozzle selection and step cleaning
- Setting and Operating the Nozzle(s)
- Troubleshooting the rodder pump
- Clean fill techniques
- Options used for specific application
- Hose reel basics
- Boom systems and options
- Filtration and vacuum systems
- Emptying the hopper
- Wash down at the dump site and seal inspection
- Maintenance and Maintenance Schedule
- Winterization

Who should attend: New and experienced operators, new mechanics who want a better understanding of the Vactor 2100 Plus

Dates Offered:     April, 9th,10th and 11th
                   June, 18th, 19th and 20th
                   Aug, 6th,7th and 8th
                   Oct, 15th, 16th and 17th
VACTOR 2100 PLUS MECHANICS.

Objectives:

This 4 day class will give experienced mechanics operational information to confirm diagnosis, repair, maintenance and system troubleshooting. We will spend approximately half the time in the hands-on lab and the other half in a lecture setting. Mechanics will learn how to troubleshoot the rodder pump, hose reel, boom systems, vacuum systems, hydraulic, pneumatic and electrical/electronic systems. Mechanics will disassemble the rodder pump, fan and transfer cases used in their Vactor units. The technicians will make a repair to the thermoplastic hose and test it. We will demonstrate the proper use of the flow meter and pressure gauge for water system diagnosis.

- Basic operation for repair confirmation
- Understand hose reel, rodder pump, boom and Intelliview function
- Intelliview for diagnostic assistance
- How to use the diagnostic manual
- How to manually override hydraulic and pneumatic functions
- Electrical/electronic troubleshooting, diagnostics and repairs
- Diagnose rodder pump problems and failures
- Rodder pump rebuild
- Diagnose vacuum related problems
- Blower inspection and fan rebuild
- Hydraulic component identification

Who should attend: New and experienced mechanics that need to have a better understanding of Vactor 2100 Plus repair procedures and recommendations.

Dates Offered:  
April, 15th, 16th, 17th and 18th
May, 20th, 21st, 22nd, and 23rd
Aug, 12th, 13th, 14th and 15th
Sept, 16th, 17th, 18th and 19th
VACTOR HXX II

Objectives:

This 3 day class will give new and experienced mechanics operational information to confirm diagnosis, repair, maintenance and system troubleshooting. We will spend approximately half the time in the hands-on lab and the other half in a lecture setting. Mechanics will learn how to troubleshoot the high pressure CAT pump, boom systems, vacuum systems, hydraulic, pneumatic and electrical/electronic systems. Mechanics will disassemble the head on the CAT pump, fan and transfer cases used in their HXX units. Perform a blower inspection.

- Basic operation for repair confirmation
- Intelliview function
- Intelliview for diagnostic assistance
- How to use the diagnostic manual
- How to manually override hydraulic and pneumatic functions
- Electrical/electronic troubleshooting, diagnostics and repairs
- Diagnose CAT pump problems and failures
- CAT pump head rebuild
- Diagnose vacuum related problems
- Blower inspection and fan rebuild
- Hydraulic component identification
- Winterization

Who should attend: New and experienced mechanics that need to have a better understanding of HXX II repair procedures and recommendations.

**Dates Offered:** Feb, 19th, 20th and 21st
2013 GUZZLER

Objectives:

This 3 day class will give new and experienced mechanics operational information to confirm diagnosis, repair, maintenance and system troubleshooting. We will spend approximately half the time in the hands-on lab and the other half in a lecture setting. Mechanics will learn how to troubleshoot the boom systems, vacuum systems, hydraulic, pneumatic and electrical/electronic systems. Mechanics will disassemble the fan and transfer cases used in their Guzzler units. Perform a blower inspection.

- Basic operation for repair confirmation
- Intelliview function
- Intelliview for diagnostic assistance
- How to use the diagnostic manual
- How to manually override hydraulic and pneumatic functions
- Electrical/electronic troubleshooting, diagnostics and repairs
- Diagnose vacuum related problems
- Blower inspection and fan rebuild
- Hydraulic component identification

Who should attend: New and experienced mechanics that need to have a better understanding of Guzzler repair procedures and recommendations.

Dates Offered: Oct, 22nd, 23rd and 24th
GUZZLER NX

Objectives:

This 3 day class will give new and experienced mechanics operational information to confirm diagnosis, repair, maintenance and system troubleshooting. We will spend approximately half the time in the hands-on lab and the other half in a lecture setting. Mechanics will learn how to troubleshoot the boom systems, vacuum systems, hydraulic, pneumatic and electrical/electronic systems. Mechanics will disassemble the fan and transfer cases used in their Guzzler units. Perform a blower inspection.

- Basic operation for repair confirmation
- Intelliview function
- Intelliview for diagnostic assistance
- How to use the diagnostic manual
- How to manually override hydraulic and pneumatic functions
- Electrical/electronic troubleshooting, diagnostics and repairs
- Diagnose vacuum related problems
- Blower inspection and fan rebuild
- Hydraulic component identification

Who should attend: New and experienced mechanics that need to have a better understanding of Guzzler repair procedures and recommendations.

Dates Offered: Sept, 10th, 11th and 12th
REQUEST FOR FIELD TRAINING FOR ELGIN, VACTOR, OR GUZZLER PRODUCTS

Field training is available for dealers or customers (end users) on all products. Mechanics training or a combination of operator/maintenance training is available.

The cost for field training is the same regardless of product. First day in a location is $2500 per trainer, each additional day in the same location is $1500 per trainer. Please discuss location with your Regional Service & Parts Manager (RSPM) for approval.

The dealer must fill out the Request for Field Training form. All requests must be received a minimum of ninety (90) days before any requested date.

Register your request at the following http://requestfieldtraining.eventbrite.com

Host’s Responsibility:

- Dealer is responsible to register all attendees with our on-line registration program.
- Obtain approved school start and completion dates from RSPM.
- Coordinate all matters concerning attendance.
- Provide adequate meeting space for presentations using screen and assure writing space for all attendees, as agreed upon with RSPM.
- Have a unit or units on hand at training site for walk around training sessions.
- Provide presentation equipment (projector, screen, flip chart). Ensure meeting room is setup and maintained for duration of the meeting.
- Provide all refreshments and/or meals for attendees.
- Provide sign-in sheet of all attendees to trainer.
- Purchase completed training manuals from ESG or print and assemble training manuals for all attendees using copy masters provided.

Trainer’s Responsibility:

- Provide presentation materials for video, projector, slide, or overhead presentation.
- Make available training manuals for purchase from ESG or provide copy master for creation of training manuals for each attendee. (Copy materials are to be sent to dealer contact at least two weeks before school).