

CUSTOMER TRAINING



SCARAB
FAYAT GROUP

Scarab Sweepers have been building road sweepers for over 30 years and have customers all round the world. We pride ourselves on not only our products but also our first class after sales support team. We aim to help you keep your vehicle on the road, in its best condition, by providing your operators and technicians all the support they require.

Scarab's Technician training courses are regularly reviewed and revised to keep pace with engineering changes and customers' requirements and expectations. Scarab is committed to providing excellent quality training to reflect the increasing demands of the industry.

Scarab training instructors are all long-serving Scarab employees who have a wealth of technical and practical skills and have worked on generations of Scarab machines. Their aim is to provide your technicians with the skills and confidence to correctly service, adjust and repair your machines which reduces whole life costs, reduces downtime and increases efficiency. With this in mind the numbers are limited to a maximum of eight delegates per course, which enables us to deliver training of the highest quality and ensures maximum benefit from the session.

Scarab Sweepers provide a range of standard courses run to a fixed itinerary which is published in this booklet, but we can also provide bespoke courses to your specialist requirements.



CANbus

One Day intensive course being mainly classroom based, but with sufficient time to see the system fitted in position on various models of sweeper.

This course is designed for service technicians with good electrical skills and covers both Minor and Truck Mount machines. It aims to give delegates a clear understanding of how the CANbus 3 system works, allowing them to competently diagnose and repair electrical faults.

Course Content:

- ***Introduction to Scarab Sweepers.***
- ***Safety awareness and safe working practices.***
- ***General principle of a CANbus system.***
- ***Operation of Scarab CANbus 3 system.***
- ***Location and identification of component parts.***
- ***Familiarization with wiring circuits and layouts.***
- ***Set-up, testing and fault diagnosis on CANbus 3.***

VM Euro 5 Minor

Three day course combining classroom study with practical workshop exercises.

This is a challenging course for competent service technicians who have a working knowledge of hydraulic and electrical systems.

Delegates completing this course will gain a full understanding of the hydrostatic drive system, as well as all the sweeping equipment. They will be able to identify component parts and have the knowledge to both maintain and carry out repairs in a safe and efficient manner.

Course Content:

- ***Introduction to Scarab Sweepers and factory tour.***
- ***Safety awareness and safe working practices***
- ***Controls and correct operation of machine.***
- ***Overview and electronic control of engine.***
- ***Analysis of hydrostatic drive system.***
- ***Set-up and testing procedures of the drive system.***
- ***Analysis of the suction fan system.***
- ***Operation, set-up, fault diagnosis of the suction system.***
- ***Analysis of the sweep and ancillary equipment.***
- ***Set-up and fault diagnosis of the sweep equipment.***
- ***Operation of the CANbus 3 system.***

Hydrostatic Truck-mount

Three Day course combining classroom study with practical demonstrations.

Delegates would benefit from previous hydraulic and electrical experience.

This course is for experienced service technicians and will equip them with the knowledge to competently service and maintain a hydrostatically driven truck mounted sweeper. It aims to cover all the hydraulic, electrical and pneumatic systems employed on the sweeper. On completion delegates will be able to identify service and repair component parts.

Course Content:

- ***Introduction to Scarab Sweepers and factory tour.***
- ***Safety awareness and safe working practices***
- ***Controls and correct operation of machine.***
- ***Analysis of transfer box and hydrostatic drive system.***
- ***Set-up and testing procedures of the drive train.***
- ***Analysis of the suction fan system.***
- ***Operation, set-up, fault diagnosis of the suction system.***
- ***Analysis of the sweep and ancillary equipment.***
- ***Set-up and fault diagnosis of the sweep equipment.***
- ***Operation of the CANbus 3 system.***

Mistral

Two Day course combining classroom study with practical workshop exercises.

Designed for service technicians this course will develop their understanding of the hydraulic, electrical and pneumatic system used on the sweeper. Delegates will be encouraged to partake in exercises throughout the day which will help their fault diagnosis skills as well as demonstrate the correct service and maintenance of component parts.

Course Content:

- ***Introduction to Scarab Sweepers and factory tour.***
- ***Safety awareness and safe working practices***
- ***Controls and correct operation of machine.***
- ***Overview and electronic control of engine.***
- ***Analysis of the suction fan system.***
- ***Operation, set-up, fault diagnosis of the suction system.***
- ***Analysis of the sweep and ancillary equipment.***
- ***Set-up and fault diagnosis of the sweep equipment.***
- ***Operation of the CANbus 3 system.***

M6 / FS6000

Two Day course with ample time for both classroom study and practical workshop exercises.

With this being predominantly an export model the course has been designed for technicians from around the globe who may not have English as a first language. Delegates will gain an understanding of the hydraulic, electric and pneumatic systems enabling them to undertake maintenance and repairs in an efficient manner.

Course Content:

- *Introduction to Scarab Sweepers and factory tour.*
- *Safety awareness and safe working practices*
- *Controls and correct operation of machine.*
- *Overview and electronic control of engine.*
- *Analysis of the suction fan system.*
- *Operation, set-up, fault diagnosis of the suction system.*
- *Analysis of the sweep and ancillary equipment.*
- *Set-up and fault diagnosis of the sweep equipment.*
- *Operation of the CANbus 3 system.*

Azura / Aquazura

Two Day course combining class room study with practical workshop exercises.

Delegates completing this course will be able to identify, service and repair component parts and maintain machines in an efficient manner. This is an in-depth course for experienced service technicians who already possess a good understanding of hydraulic and electrical circuits, and are able to navigate schematic drawings.

Course Content:

- *Introduction to Scarab Sweepers.*
- *Safety awareness and safe working practices*
- *Controls and correct operation of machine.*
- *Overview of engine.*
- *Analysis of hydrostatic drive system.*
- *Analysis of the suction fan system.*
- *Analysis of the sweep and ancillary equipment.*
- *Set-up and fault diagnosis of the sweep equipment.*
- *Understanding electrical schematic drawings.*
- *Chassis and running gear.*

Supervisor

One Day course which combines class room study with practical workshop demonstrations. Whilst some previous knowledge of road sweepers is preferable it is not essential.

The course is designed for supervisors and cleansing managers to give them a better understanding of sweeper operations, regular service and maintenance. With a greater understanding of a road sweeper's capabilities and limitations, managers are then able to plan their workload better to reduce their downtime and increase their efficiency.

Course Content:

- ***Safety awareness on machines***
- ***Theory behind the sweeper***
- ***Operation of the sweeper***
- ***Product Knowledge***
- ***Maintenance***
- ***Fault finding***
- ***Interrogation of CANbus 3 system***
- ***Open discussion***

Operator Instruction

One Day course aimed at sweeper operators / drivers, usually taking place at your own premises and with your own equipment. Whilst it may appear that sweeping is a simple operation, in truth the modern road-sweeper is a complex mix of hydraulics, electronics and mechanical components requiring guidance in order that your operators get the best out of their machines.

Generally, the duration of the instruction course is six to eight hours, where approximately four hours is required for the introduction of the machine. Thereafter the time may vary, depending on the ability of the candidate, where he or she has to acquire 'hands on' experience.

Operator Instruction Courses are arranged on request and a Certificate of Attendance for the Scarab Sweeping Course will be issued to each candidate.

Other courses available include:

- ***Management Awareness***
- ***Train the Trainer***
- ***Familiarisation Training.***

Please contact:

Mr Tony Lawrence
Scarab Sweepers Ltd
Pattenden Lane
Marden
Kent
TN12 9QD
email: tlawrence@scarab-sales.com
UK Tel: +44 (0)1622 831 006

General Information

Course Times

Training courses start at 9:00 am and finish at 4:30 pm
Registration is from 8:30 to 9:00 am. Refreshments will be provided.
Lunch will be provided. If you have any special dietary needs see
Special Requirements section.

Travel Arrangements

Scarab Sweepers are able to arrange airports transfers as necessary.
Please indicate the delegate's requirements on the booking form. Once
the flight details are known Scarab Sweepers can provide you with a
quote.

Accommodation

Scarab Sweepers can provide a list of recommended hotels and are
able to arrange a reservation on your behalf. All bills should be settled
directly with the hotel. An administration charge of £20.00 will be
charged per booking. Cancelled or untaken rooms are the responsibility
of the customer.

Safety

Scarab Sweepers will provide the necessary high visibility jackets, ear
defenders and safety glasses where necessary.
All delegates MUST provide their own safety shoes.
Failure to comply may result in the delegate being unable to complete
the course.

Special Requirements

If a delegate has any special requirements such as dietary or equipment
these should be noted on the booking form. This will aid the smooth
running and enjoyment of the course.

Course Charges

1 day course - £200 + VAT per delegate
2 day course - £400 + VAT per delegate
3 day course - £600 + VAT per delegate
Operator instruction - Price on application

Booking Confirmation

Booking confirmation will be sent out and will include a Joining Package
for each delegate. This will include joining instructions, location details,
any pre-booked travel plans and accommodation.

Cancellations

For cancellations made up to 2 weeks before the course date a charge
of 30% of the course cost will be invoiced.
For cancellations made less than 2 weeks before the course date the
full cost of the course will be invoiced.
There will be no charge for a change of delegate if the original delegate
is unable to attend.

On-site and Bespoke Courses

Scarab Sweepers are able to provide both on-site courses at your
premises as well as bespoke courses to fit individual customer needs.
For further details, please contact:

P Newman
Scarab Sweepers Ltd
Pattenden Lane
Marden
Kent TN12 9QD
Tel: +44 (0)1622 834 511
email: pnewman@scarab-sales.com



Booking Form

Section 1 - Essential Information

Must be completed in full

Company Name _____

Company Address _____

Telephone _____ Fax _____

Email _____

Course Name _____

Course Dates _____

Names of Delegates _____

Order Number _____

Person Authorizing Name _____

Position _____

Signature _____

Date _____

Section 2 - Options and extras

Accommodation *Please state dates required*

Airport Transfers *Please state flight details*

Arrival _____

Departure _____

Any special requirements *Please detail below*

Section 3 - Contact Details

P Newman
Scarab Sweepers Ltd
Pattenden Lane
Marden
Kent TN12 9QD
Fax: +44 (0)1622 832 417
email: pnewman@scarab-sales.com

Fax to: +44 (0) 1622 832 417



Scarab Sweepers Limited

Pattenden Lane, Marden, Tonbridge,
Kent - TN12 9QD - United Kingdom

Tel: +44 (0) 1622 831 006

Fax: +44 (0) 1622 832 417

Email: scarab@scarab-sales.com

Web: scarab-sweepers.com