

October 2003

Kalmar Training Centre

**Service Training – Operator Training
Kalmar Machines**



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Training Plan 2003 – 2004

OPERATOR TRAINING

According to Swedish curriculum TLP – 2

No.	Model Program	OCT	NOV	DEC	JAN	FEB	MAR	INFO page
Courses in Ljungby – Lidhult								
31	Counterbalanced Forklift truck	3101: 40 lessons. SEK 4 600 3102: 1 day. SEK 1 300 3103: 2 days. SEK 2 300						
01	Counterbalanced Forklift truck							
02	Repetition/refresh							
03	Stacker truck							
32	Reach stacker	3 days. SEK 5 700						
01	Cont-Champ/Master							18
33	Empty stacker	3 days. SEK 5 700						
01	DCD 70 - 80 E8							
34	Terminal tractor	3 days. SEK 5 700						
01	TRX							

N.B. S = Training in SWEDISH. E = Training in ENGLISH. G = Training in GERMAN

Training Plan 2003 – 2004

SERVICE TRAINING – BASIC								
No.	Model Program	OCT	NOV	DEC	JAN	FEB	MAR	INFO page
		Courses in Ljungby – Lidhult						
11	Electric Trucks	3 days. SEK 5 700						
02	ECD 40 – 90 L							5
03	ECD 90 – 160							
12	Diesel Trucks	3 – 5 days. SEK 5 700 – 9 500						
01	DCD 40 – 90 L							6
02	DCD 60 – 90 L H							7
03	DCD 90 – 180							8
04	DCD 180 – 250							
05	DCD 280 – 450							
06	DCD 40 – 55 H							9
07	DCE 90 – 180							
13	Container Trucks	5 days. SEK 9 500						
01	DCD 70E3 – 70E5							
02	DCE 80E5 – 80E8							10
03	DCD 370 – 450							
04	DCE 70/90 – 45 E							11
14	Reach Stacker	5 days. SEK 9 500						
04	DRD 100 – 200 S							12
05	DRD 420 – 450 S							13
06	DRD 400 – 450 C							
07	DRS 450							
08	RTD Log							
09	DRF 420 – 450							14
15	RoRo	5 days. SEK 9 500						
01	DCB 28 – 32 RoRo							
02	TRX 162 – 182							
03	TRX 242 – 252							
19	Other Courses	1 – 5 days. SEK 1 900 – 9 500						
01	ECS – level 1 + 2							15
02	Techn Prod Course							16
03	Comb.of machines							
04	KCS							

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Training Plan 2003 – 2004

SERVICE TRAINING – ADDITIONAL TRAINING								
No.	Course Title	OCT	NOV	DEC	JAN	FEB	MAR	INFO page
		Courses in Ljungby – Lidhult						
21	Drive Train (eng.+box+axle)	3 days. SEK 5 700						
01	FLT 5 – 16							
02	FLT 18 – 45							
03	ContChamp 8 - 45							
22	Hydraulics	½ – 3 days. SEK 950 – 5 700						
01	Basic Kalmar – hydraulics							
02	FLT – gear pumps							
03	ContC. – variable							
04	Hydrostatic system							
05	DCD – variable							
06	Clean Hydraulics							
23	El – Electronics	½ - 3 days. SEK 950 – 5 700						
01	Kalmar – electr.syst.							
02	Handling of electr. components, ESD							
24	Maintenance & Supervision	1 – 3 days. SEK 1 900 – 5 700						
01	Daily Supervision – Responsibility							
02	Periodic Supervision							
25	LP Gas	1 day. SEK 1 900						
01	Basic LPG Course							
29	Other Courses	1 - 5 days. SEK 1 900 – 9 500						
01	Parts Administrators							17
03	Introduction for new employees							
04	Kalmar – Company presentation							

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SERVICE TRAINING – BASIC

Electric Trucks: ECD 40 - 90 L

Course no. 1102

A basic Service Training on Kalmar's electrical trucks, with new electronic equipment on the regulators. Theory and hands-on training. Electrical drawings and fault findings.

Time: See page 3

Duration: 3 days of Service Training

Purpose: After passing the course, the participant should...

- ... have knowledge about the design and function of included components
- ... practically carry out service work and periodic supervision
- ... know how to carry out fault finding, make diagnosis
- ... know how to carry out adjustments
- ... know how to carry out fault finding and make adjustments on the ECS system
- ... know how to use the programming unit
- ... know how to program, calibrate, adjust

Intended for: Service Engineer

Course fee: SEK 5 700/participant

Contents, 3 days

00 General

- Safety rules
- Regulations

10 Chassis & cab

- Description and function of chassis and cab

20 Electrical System

- ECS function, fault findings, service instructions, adjustments
- Wiring diagrams
- Battery, drive and pump motor, regulators
- Programming
- Calibration/adjustments

40 Transmission, Drive axle & Brakes

- Drive axle Kessler D 41
- Wet Disc Brakes, service

50 Compressed Air

- ---

60 Steering System

- Service Instructions, adjustments

70 Hydraulic System

- Description,
- Service Instructions
- Hydraulic diagrams
- Clean Hydraulics

80 Lifting Mast & Fork Carriage

- Description, Service Instructions, controls and adjustments

90 Periodic Supervision

- Daily supervision, warranty service, lubrication chart
- Oil and lubricant recommendations

100 Opt. Equipment

- Chassis, cabin, mast, drive train, hydraulics etc.

SERVICE TRAINING – BASIC

Diesel Trucks: DCD 40 – 90 L

Course no. 1201

A basic Service Training on Kalmar's Light range trucks. Theory and hands-on training. Electrical drawings and fault findings.

Time: See page 3

Duration: 4 days of Service Training

Purpose: After passing the course, the participant should...

- ... have knowledge about the design and function of included components
- ... practically carry out service work and periodic supervision
- ... know how to carry out fault finding, make diagnosis
- ... know how to carry out adjustments
- ... know how to carry out fault finding and make adjustments on the ECS system

Intended for: Service Engineer

Course fee: SEK 7 600/participant

Contents, 4 days

00 General

- Safety rules
- Regulations

10 Chassis & cab

- Description and function of chassis and cab

20 Electrical System

- ECS function, fault findings, service instructions, adjustments
- Wiring diagrams

30 Engine

- Perkins 1004

40 Transmission, Drive axle & Brakes

- Gearbox Velvet, Clark
- Drive axle Kessler D 41
- Wet Disc Brakes, service

50 Compressed Air

- ---

60 Steering System

- Service Instructions, adjustments

70 Hydraulic System

- Description
- Service Instructions
- Hydraulic diagrams
- Clean Hydraulics

80 Lifting Mast & Fork Carriage

- Description, Service Instructions, controls and adjustments

90 Periodic Supervision

- Daily supervision, warranty service, lubrication chart
- Oil and lubricant recommendations

100 Opt. Equipment

- Chassis, cabin, mast, drive train, hydraulics etc.

SERVICE TRAINING – BASIC

Diesel Trucks: DCD 60 – 90 LH

Course no. 1202

A basic Service Training on Kalmar's new hydrostatic truck. Theory and hands-on training. Electrical drawings and fault findings.

Time: See page 3

Duration: 4 days of Service Training

Purpose: After passing the course, the participant should...

- ... have knowledge about the design and function of included components
- ... practically carry out service work and periodic supervision
- ... know how to carry out fault finding, make diagnosis
- ... know how to carry out adjustments
- ... know how to carry out fault finding and make adjustments on the ECS system

Intended for: Service Engineer

Course fee: SEK 7 600/participant

Contents, 4 days

00 General

- Safety rules
- Regulations

10 Chassis & cab

- Description and function of chassis and cab

20 Electrical System

- ECS function, fault findings, service instructions, adjustments
- Wiring diagrams

30 Engine

- Perkins 1004

40 Transmission, Drive axle & Brakes

- Hydrostatic pump
- Hydrostatic motor
- Drive axle Kessler D 41
- Wet Disc Brakes, service

50 Compressed Air

- ---

60 Steering System

- Service Instructions, adjustments

70 Hydraulic System

- Description, Service Instructions, diagrams
- Clean Hydraulics

80 Lifting Mast & Fork Carriage

- Description, Service Instructions, controls and adjustments

90 Periodic Supervision

- Daily supervision, warranty service, lubrication chart
- Oil and lubricant recommendations

100 Opt. Equipment

- Chassis, cabin, mast, drive train, hydraulics etc.

SERVICE TRAINING – BASIC

Diesel Trucks: DCD 90 – 180

Course no. 1203

A basic Service Training on Kalmar's Middle range trucks. Theory and hands-on training. Electrical drawings and fault findings.

Time: See page 3

Duration: 5 days of Service Training

Purpose: After passing the course, the participant should...

- ... have knowledge about the design and function of included components
- ... practically carry out service work and periodic supervision
- ... know how to carry out fault finding, make diagnosis
- ... know how to carry out adjustments
- ... know how to carry out fault finding and make adjustments on the ECS system

Intended for: Service Engineer

Course fee: SEK 9 500/participant

Contents, 5 days

00 General

- Safety rules
- Regulations

10 Chassis & cab

- Description and function of chassis and cab

20 Electrical System

- ECS function, fault findings, service instructions, adjustments
- Wiring diagrams

30 Engine

- Volvo TWD 630 VE, TWD 731 VE
- Perkins 1006-6

40 Transmission, Drive axle & Brakes

- Gearbox Clark 18 000, 20000, 28000, 32000
- Drive axle Kessler D 81
- Wet Disc Brakes, service

50 Compressed Air

- ---

60 Steering System

- Service Instructions, adjustments

70 Hydraulic System

- Description, Service Instructions, diagrams
- Clean Hydraulics

80 Lifting Mast, attachment

- Description, service instructions, controls and adjustments

90 Periodic Supervision

- Daily supervision, warranty service, lubrication chart
- Oil and lubricant recommendations

100 Opt. Equipment

- Chassis, cabin, mast, drive train, hydraulics etc.

SERVICE TRAINING – BASIC

Diesel Trucks: DCD 40 – 55 H

Course no. 1206

A basic Service Training on Kalmar's new hydrostatic truck with wheel motors. Theory and hands-on training. Electrical drawings and fault findings.

Time: See page 3

Duration: 3 days of Service Training

Purpose: After passing the course, the participant should...

- ... have knowledge about the design and function of included components
- ... practically carry out service work and periodic supervision
- ... know how to carry out fault finding, make diagnosis
- ... know how to carry out adjustments
- ... know how to carry out fault finding and make adjustments on the ECS system

Intended for: Service Engineer

Course fee: SEK 5 700/participant

Contents, 3 days

00 General

- Safety rules
- Regulations

10 Chassis & cab

- Description and function of chassis and cab

20 Electrical System

- Function, fault findings, service instructions, adjustments
- Wiring diagrams

30 Engine

- Perkins 1004

40 Hydrostatic

Transmission - Brakes

- Hydrostatic pump
- Hydrostatic wheel motors

50 Compressed Air

- ---

60 Steering System

- Service Instructions, adjustments

70 Hydraulic System

- Description, Service Instructions, diagrams
- Clean Hydraulics

80 Lifting Mast & Fork Carriage

- Description, Service Instructions, controls and adjustments

90 Periodic Supervision

- Daily supervision, warranty service, lubrication chart
- Oil and lubricant recommendations

100 Opt. Equipment

- Chassis, cabin, mast, drive train, hydraulics etc.

SERVICE TRAINING – BASIC

Container Trucks: DCD 80 E5 – 80 E8

Course no. 1302

A basic Service Training on Kalmar's Empty Container stacker. Theory and hands-on training. Electrical drawings and fault findings. Emphasize on the el- hydraulic system.

Time: See page 3

Duration: 5 days of Service Training

Purpose: After passing the course, the participant should...

- ... have knowledge about the design and function of included components
- ... practically carry out service work and periodic supervision
- ... know how to carry out fault finding, make diagnosis
- ... know how to carry out adjustments
- ... know how to carry out fault finding and make adjustments on the ECS system

Intended for: Service Engineer

Course fee: SEK 9 500/participant

Contents, 5 days

00 General

- Safety rules
- Regulations

10 Chassis & cab

- Description and function of chassis and cab

20 Electrical System

- ECS function, fault findings, service instructions, adjustments
- Wiring diagrams

30 Engine

- Volvo TWD 731 VE
- Perkins 1006-6

40 Transmission, Drive axle & Brakes

- Gearbox Clark 32 000
- Drive axle Kessler
- Wet Disc Brakes, service

50 Compressed Air

- ---

60 Steering System

- Service Instructions, adjustments

70 Hydraulic System

- Description, Service Instructions, diagram's
- Clean Hydraulics

80 Lifting Mast & Fork Carriage

- Description, Service Instructions, controls and adjustments

90 Periodic Supervision

- Daily supervision, warranty service, lubrication chart
- Oil and lubricant recommendations

100 Opt. Equipment

- Chassis, cabin, mast, drive train, hydraulics etc.

SERVICE TRAINING – BASIC

Diesel Trucks: DCE 70/90 – 45 E

Course no. 1304

A basic Service Training on Kalmar's new Empty Container stacker. Theory and hands-on training. Electrical drawings and fault findings. Emphasize on the el- hydraulic system.

Time: See page 3

Duration: 5 days of Service Training

Purpose: After passing the course, the participant should...

- ... have knowledge about the design and function of included components
- ... practically carry out service work and periodic supervision
- ... know how to carry out fault finding, make diagnosis
- ... know how to carry out adjustments
- ... know how to carry out fault finding and make adjustments on the ECS system

Intended for: Service Engineer

Course fee: SEK 9 500/participant

Contents, 5 days

00 General

- Safety rules
- Regulations

10 Chassis & cab

- Description and function of chassis and cab

20 Electrical System

- ECS function, fault findings, service instructions, adjustments
- Wiring diagrams

30 Engine

- Volvo TWD 731 VE
- Perkins 1006-6

40 Transmission, Drive axle & Brakes

- Gearbox Clark 32 000
- Drive axle Kessler
- Wet Disc Brakes, service

50 Compressed Air

- ---

60 Steering System

- Service Instructions, adjustments

70 Hydraulic System

- Description, Service Instructions, diagram's
- Clean Hydraulics

80 Lifting Mast & Fork Carriage

- Description, Service Instructions, controls and adjustments

90 Periodic Supervision

- Daily supervision, warranty service, lubrication chart
- Oil and lubricant recommendations

100 Opt. Equipment

- Chassis, cabin, mast, drive train, hydraulics etc.

SERVICE TRAINING – BASIC

Reachstacker: DRD 100 - 200

Course no. 1404

A basic Service Training on the small Kalmar reachstacker ContChamp. Theory and hands-on training. Emphasize on the electrical system with ECS and the hydraulic system.

Time: See page 3

Duration: 5 days of Service Training

Purpose: After passing the course, the participant should...

- ... have knowledge about the design and function of included components
- ... practically carry out service work and periodic supervision
- ... know how to carry out fault finding, make diagnosis
- ... know how to carry out adjustments
- ... know how to carry out fault finding and make adjustments on the ECS system

Intended for: Service Engineer

Course fee: SEK 9 500/participant

Contents, 5 days

00 General

- Safety rules
- Regulations

10 Chassis & cab

- Description and function of chassis and cab

20 Electrical System

- ECS function
- Overload Protection System
- Wiring diagrams
- Fault finding

30 Engine

- Volvo TWD 731 VE

40 Transmission, Drive axle & Brakes

- Gearbox Clark 32 000
- Drive axle Rockwell PRC, Kessler D 81
- Wet Disc Brakes, service

50 Compressed Air

- ---

60 Steering System

- Service Instructions, adjustments

70 Hydraulic System

- Description, Service Instructions, diagram's
- Clean Hydraulics

80 Boom & Attachment

- Description, Service Instructions, controls and adjustments

90 Periodic Supervision

- Daily supervision, warranty service, lubrication chart
- Oil and lubricant recommendations

100 Opt. Equipment

- Chassis, cabin, attachment, drive train, hydraulics etc.

SERVICE TRAINING – BASIC

Reachstacker: DRD 420 – 450 S

Course no. 1405

A basic Service Training on Kalmar's reachstacker ContChamp. Theory and hands-on training. Emphasize on the electrical system with ECS and the hydraulic system.

Time: See page 3

Duration: 5 days of Service Training

Purpose: After passing the course, the participant should...

- ... have knowledge about the design and function of included components
- ... practically carry out service work and periodic supervision
- ... know how to carry out fault finding, make diagnosis
- ... know how to carry out adjustments
- ... know how to carry out fault finding and make adjustments on the ECS system

Intended for: Service Engineer

Course fee: SEK 9 500/participant

Contents, 5 days

00 General

- Safety rules
- Regulations

10 Chassis & cab

- Description and function of chassis and cab

20 Electrical System

- ECS function
- Overload Protection System
- Wiring diagrams
- Fault finding

30 Engine

- Volvo TWD 1031 VE, Scania DSI 11

40 Transmission, Drive axle & Brakes

- Gearbox Clark 36 000
- Drive axle Rockwell
- Wet Disc Brakes, service

50 Compressed Air

- ---

60 Steering System

- Service Instructions, adjustments

70 Hydraulic System

- Description, Service Instructions, diagrams
- Clean Hydraulics

80 Boom & Attachment

- Description, Service Instructions, controls and adjustments

90 Periodic Supervision

- Daily supervision, warranty service, lubrication chart
- Oil and lubricant recommendations

100 Opt. Equipment

- Chassis, cabin, attachment, drive train, hydraulics etc.

SERVICE TRAINING - BASIC

ContChamp: DRF 420 – 450 S

Course no. 1409

A basic Service Training on Kalmar's reachstacker ContChamp. Theory and hands-on training. Emphasize on the Kalmar Distributed Control System, KDCS, and the hydraulic system.

Time: See page 3

Duration: 5 days of Service Training

Purpose: After passing the course, the participant should...
 ... have knowledge about the design and function of included components
 ... practically carry out service work and periodic supervision
 ... know how to carry out fault finding, make diagnosis
 ... know how to carry out adjustments
 ... know how to carry out fault finding and make adjustments on the KDCS

Intended for: Service Engineer

Course fee: SEK 9 500/participant

Contents, 5 days

B Safety <ul style="list-style-type: none"> - Safety information - Safety instructions - Environmental and stds 	4 Brakes <ul style="list-style-type: none"> - Power-assisted brakes - Parking brake system - Temp control, brake oil 	10 Common hydraulics <ul style="list-style-type: none"> - Safety valves - Tanks, accumulators - Pumps, prop valves
C Preventive maintenance <ul style="list-style-type: none"> - 50 hours check - Service schedule 	5 Steering <ul style="list-style-type: none"> - Power-assisted system 	11 Common electric <ul style="list-style-type: none"> - Batteries, alternator - El central, control units
0 Complete machine <ul style="list-style-type: none"> - Troubleshooting 	6 Wheel suspension <ul style="list-style-type: none"> - Suspension, tyres 	12 Common pneumatics
1 Engine <ul style="list-style-type: none"> - Fuel system - Cooling system - Lubrication system 	7 Load handling <ul style="list-style-type: none"> - Lift and lower - Extension - Spreading, twistlocks 	D Error codes <ul style="list-style-type: none"> - Engines - Transmisson - Control and monitoring
2 Transmission <ul style="list-style-type: none"> - Torque converter - Mech transmission - Lubrication system - Cooling system 	8 Control and monitoring <ul style="list-style-type: none"> - Monitoring functions - Error codes - Diagnostic test - Settings 	E Diagrams <ul style="list-style-type: none"> - Hydraulic, main - Hydraulic, spreader - Circuit diagrams - List of components
3 Power transmission <ul style="list-style-type: none"> - Prop shaft, drive axle 	9 Frame, body, cab <ul style="list-style-type: none"> - Safety equipment 	F Technical data

SERVICE TRAINING – BASIC

Other Courses: ECS – level 1 + 2

Course no. 1901

A basic Service Training on Kalmar ECS, Electronic Control System. Theory and hands-on training on all modules. The course is divided in level 1 and level 2.

Time: See page 3

Duration: 1+1 day of Service Training

Purpose: After passing the course, the participant should...

- ... have knowledge about the design and function of included components
- ... know how to carry out fault finding, make diagnosis
- ... know how to carry out adjustments and service
- ... know how to understand error messages
- ... know how to make set-up, initiation and calibration
- ... know how to handle electronic material correctly and know the ESD - risks

Intended for: Service Engineer

Course fee: SEK 1 900 – 3 800/participant

Contents, 1+1 day

Level 1 Theoretical and practical training

Introduction

General

- ECU – units
- Modules

Terminal functions

- Display, buttons

Menu structure

- Operating menus
- Error messages
- Service menus

Overload indicator

- Mechanical overload
- Electronical overload

Operating menus

- Combination of modules

Error messages

- Level 1 error – level 2 error

Service menus

- Codes

ECU 1

- Set-up, setting of basic values
- Initiation of module 01
- Calibration of module 01
- Etc, for other modules

ECU 2 – 4 – 8

- See above
- Diagnostics

ESD - Electro Static Discharge

Level 2 Repetition and fault finding

If long time since level 1

- Repetition of level 1
- Discussions of practical experiences
- Practical fault finding

If level 1 and 2 are together

- Practical fault finding

SERVICE TRAINING – BASIC

Other Courses: Technical Product Course

Course no. 1902

A basic Technical Product Course for new employees in sales service and spareparts organisations at subsidiaries and agents/distributors.

Time: See page 3

Duration: 1 - 5 days Technical Product Course basic

Purpose: After passing the course, the participant should...

- ... know Kalmar Industries hole range or have knowledge about part of it (Ljungby-Lidhult)
- ... know different kind of parts in the machine
- ... know different combinations of drive trains

Intended for: - New employees in sales, service and spareparts organisations at subsidiaries and agents/distributors.

- Employees that have changed assignment

Course fee: SEK 1 900 – 9 500/participant

Contents

- **Product information**
- **Machine types after request**
- **Participate at assembling line (3 - 5 days training)**
- **Visit the Light – Medium – Heavy workshops in Ljungby and Lidhult**
- **Visit the Cylinder workshop**
- **Visit the Sparepart warehouse**

SERVICE TRAINING – ADDITIONAL TRAINING

Other Courses: Parts Administrators

Course no. 2901

A basic Training intended for new employed Parts Administrators. Or a refresher for them who want to be updated.

Time: See page 4

Duration: 1 – 5 days of Training. Theoretical and practical training

Purpose: After passing the course, the participant should...

- ... have knowledge about and how to use all kind of Kalmar documentation
- ... know how to read and get an understanding of a Machine Card
- ... have knowledge about connection between Machine Card and Parts Catalogue
- ... know how to work in the BAAN or KOLS systems
- ... have knowledge about a spare part recommendation
- ... know the routines about warranties, return, claims, order classes etc
- ... have knowledge about how to order parts
- ... have knowledge about After Hour Service
- ... have technical knowledge about the different systems and functions in a truck

Intended for: Parts Administrator

Course fee: SEK 1 900 – 9 500/participant

Contents, 1 – 5 days

Going through all documentation

- Master Catalogue and Individual Catalogue

Machine Card

- Find connection between Machine Card and Parts Catalogue

BAAN and KOLS

- Practical exercises

Parts recommendations

- What is included?

Routines

- How to order parts
- Order classes
- Return routines
- Claims
- Warranties

- Tracking – status of delivery

- Exchange system

After Hour Service

- How to use our 24-hour service?

Machine and Components

- Design of Kalmar machines
- Where are the parts fitted?

Kalmar – Company presentation

- Our organisation and range

Personnel

- Meeting with Kalmar staff at different departments as Spare Parts, Service, KnowHow, Product Support, Purchase etc

Tour around in Parts Warehouse and Workshops

OPERATOR TRAINING

Reachstacker: ContChamp - ContMaster

Course no. 3201

A basic Operator Training on Reachstacker. We provide theoretical and practical knowledge to safely operate empty or full, toplift, bottomlift or intermodal Reachstackers.

Time: See page 2

Duration: Subject to experience and knowledge

Ratio: 1 Reachstacker, 1 participant, 1 instructor

Knowledge: On completion of training, participants will have a theoretical understanding of...

- ...Safety requirements
- ...The operating manual
- ...The pre-shift maintenance checks
- ...Stability and mobility considerations when operating
- ...Wet Disc Brakes
- ...Engineering principles and hydraulic systems

Skill: On completion of training, participants will be able to...

- ...Carry out pre-shift checks and daily maintenance
- ...Operate the reachstacker safely and competently, obeying all safety rules
- ...Stack and destack all container types on site
- ...Load and unload each transport type on site e.g. lorry, rail car, maffi, cassette etc

Conclusion: All training objectives will be confirmed by a practical skills test and job safety knowledge test. Successful participants will receive certificates and licences.

Course fee: SEK 5 700/participant

Contents

The course will include theoretical and practical instruction covering...

- | | |
|---|--|
| • Responsibilities under Swedish Legislation | • Safe use and operation of attachment and tools |
| • Operating Manual | • Safe handling of <u>all</u> container types on site |
| • Pre-operational checks and preventive maintenance | • Wet Disc Brakes |
| • Refuelling procedures | • Engineering principles and hydraulic systems |
| • Mobility and stability factors | |
| • Safety rules and emergency procedures when operating | |

Selection of Operators

Careful consideration must be given when selecting any potential reachstacker operator. Those chosen should have a mature attitude. Also be reliable and capable of doing the job in a safe and responsible manner. Operating a reachstacker requires 100% of the time.

Selected operators should be reasonably intelligent and have a reasonable degree of physical and mental fitness, in cases where an operator may have a handicap or disability, then medical advice should be obtained.

If a new employee claims to have been previously trained, then proof of such training should be provided. Also steps should be taken to initially monitor the operator's skills and safety attitude within the new working environment. It is advisable that a new employee should have familiarisation or specific job training to ensure he/she is proficient with the reachstacker and its operation.

Instructor Qualifications

All reachstacker instructors should be experienced, trained, tested and certificated operators of the reachstacker on which they are required to give instruction.

Instructors should have been trained in instructional techniques and methods and in the assessment and testing of operators.

The effectiveness of any instruction is dependent upon the operating skill and safety knowledge of the reachstacker instructor.

Information

<p>Application Kalmar Industries Sverige AB Kalmar Training Centre S-341 81 Ljungby</p> <p>Fax: +46 372-26 392 Phone: +46 372-26 297 Mail: lars-goran.andersson@kalmarind.com susanne.eriksson@kalmarind.com</p> <p>Training fee is per participant. Invoice will be sent after finished training.</p> <p>Service training at your company: Price: SEK 10000/day excl. travel costs, accommodation and doc kit EUR 55 per participant. Up to 10 participants. Operator training at your company, ask for an offer.</p> <p>Discount for service training in Ljungby – Lidhult</p> <table> <tr> <td>1 – 3 participants</td> <td>0%</td> </tr> <tr> <td>4 – 6 participants</td> <td>-10%</td> </tr> <tr> <td>7 – 10 participants</td> <td>-20%</td> </tr> </table> <p>Number of Participants Max 10 participants on Service Training</p>	1 – 3 participants	0%	4 – 6 participants	-10%	7 – 10 participants	-20%	<p>Start/end of the day The training starts at 08.30 and ends 16.30. Other wishes according to agreement.</p> <p>Cancellation Latest 2 weeks before start of the training. The application can be transferred to someone else.</p> <p>Cancelled training at low number of participants or other reasons. The participants will have priority to next (not fully booked) training.</p> <p>Hotel</p> <table> <tr> <td>Motel Ljungby</td> <td>SEK 500/night</td> </tr> <tr> <td>Terraza</td> <td>SEK 800/night</td> </tr> </table> <p>Questions – Please call</p> <p>Lars-Göran Andersson Phone: +46 372-26 297 Fax: +46 372-26 392</p> <p>Susanne Eriksson Phone: +46 372-26 352 Fax: +46 372-26 392</p>	Motel Ljungby	SEK 500/night	Terraza	SEK 800/night
1 – 3 participants	0%										
4 – 6 participants	-10%										
7 – 10 participants	-20%										
Motel Ljungby	SEK 500/night										
Terraza	SEK 800/night										

Application form

Course No	Date	Participants

Company	
Contact person	
Address	
Phone/Telefax	
e-mail	