



# Harsco Track Technologies

Harsco

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## SERVICE BULLETIN MAINTENANCE OF WAY EQUIPMENT

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**DATE:** 10-14-2002 **BULLETIN NO:** 02-027

**TITLE:** HARSCO TRACK TECHNOLOGIES SCHOOL SCHEDULE FOR YEAR 2003

**RATING:**

<input type="checkbox"/>	<b>DIRECTIVE</b> (Action Is Required)	<input type="checkbox"/>	<b>ALERT</b> (Potential Problem)
<input checked="" type="checkbox"/>	<b>INFORMATION</b> (Action Is Optional)	<input type="checkbox"/>	<b>PRODUCT IMPROVEMENT</b> (Enhance Product)

**PRODUCT SERIES / MODEL:**

**SERIAL NO:**

**SUMMARY:** Harsco Track Technologies School Schedule for the year 2003. Schools will be taught at the Harsco Track Technologies facility in Columbia, SC.

**OPERATIONAL IMPACT:**

**ACTION:** Review the following bulletin. School registration is mandatory and should be done as soon as possible to ensure a seat.

**CONTACT:** For school reservations, mail in the attached registration form or call the Service Department at the Columbia, SC. facility, (800) 345-9160.

**DATE:** October 8, 2002

**SUBJECT:** Harsco Track Technologies Schools for the Year 2003

In accordance with Harsco Track Technologies continuing training program, we are pleased to announce our year 2003 School Schedule.

Our schools will commence in January and continue through March. The cost for school is \$225.00 per student per course, payable in advance. Registration is mandatory and should be done as early as possible to assure yourself a seat. (See Registration Procedures).

Please read the schedule and contents carefully to insure that you register in the proper class.

For your convenience, we have listed a number of motels near Harsco Track Technologies facility.

Comfort Inn	803-796-0044
Knights Inn	803-794-0222
Holiday Inn	803-794-9440
Days Inn	803-796-9900

For school reservations, please mail registration form or call the service department at 1-800-345-9160.

The schools will be taught at the Harsco Track Technologies facility located at 2401 Edmund Road (Highway 302, just past the entrance to the Columbia Metro Airport).

Training classes will begin each Monday at 8:00 am. On Friday, classes will finish no later than noon.

*In addition to training at our facility in Columbia, SC; customers requiring on-site classroom training can be arranged through Cliff Tripp at our Columbia office. Cost for on-site training is \$225.00 per student (minimum of 10 students), plus instructor's expenses.*

## Registration Procedures

1. First, review and select the course you require. Note that some courses will be conducted only once this year.
2. Some courses require a knowledge of working with blue prints and schematic reading. Little would be gained by the student if these requirements were overlooked.
3. The cost for school is \$225.00 per student per course. School registration can be accomplished by filling out the enclosed registration form along with check, money order, or credit card number, or mailing a Purchase Order indicating registrants names to:

Harsco Track Technologies  
2401 Edmund Road - Box 20  
West Columbia, SC 29171-0020  
Attn: Service Department

If you prefer to call your registration in, please call 1-800-345-9160. The Service Department will be pleased to assist you.

## Course Schedule Year 2003

### **SUBJECT: BASIC SCHOOL**

**COURSE DESCRIPTION:** This course covers the fundamentals of systems required for Mobile Track machines. An in-depth study into the hydraulic, and electrical systems required. (Applicable to most all track maintenance equipment). The course will cover basic hydraulic diagrams, symbols used and actual components, such as pumps, motors, actuators, relief valves, etc. Troubleshooting of these components will also be covered.

Electrical symbols, basic electrical diagrams, schematic reading and circuit analysis will be discussed. The differences between AC and DC power, and how they are controlled. The proper use of meters and other troubleshooting aids to measure voltage and currents.

Safety precautions required for working with or testing the above mentioned systems.

**CLASS DATES: January 6 - 10, 2003 (One Class Only)**

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### **SUBJECT: ADVANCED ELECTROMATIC (Electric over Hydraulic) MARK II, Models E-JD, ES-JD, E-TD, ES-TD Machines**

**COURSE DESCRIPTION:** This course will deal with an in-depth study of all systems; i.e. mechanical, hydraulic, and electrical. General maintenance requirements to include repair procedures as required. This course will introduce troubleshooting techniques and also circuit analysis of the Mark II machines.

**CLASS DATES: January 13 - 17, 2003 (One Class Only)**

**NOTE:** Students in this course should be able to follow schematics with little if any assistance. A student who attended the Basic School would fit in fine in this Mark II course.

**SUBJECT:           ADVANCED ELECTROMATIC (Electric over Hydraulic)  
MARK III, Model ECTR130 Machines**

COURSE DESCRIPTION: This course will cover in detail the mechanical, hydraulic, and electrical systems of the Mark III tampers. Introduction of the Solid State Controller, its function, and proper troubleshooting techniques will be covered in detail.

**CLASS DATES:    January 20 - 24, 2003  
                      February 24- 28, 2003**

NOTE: Students should be able to follow hydraulic, electrical schematics with little assistance. A familiarity with Mark II machines would be helpful. Students who have attended the Basic School would fit in nice in this course.

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**SUBJECT:           APPLICATION SCHOOL**

COURSE DESCRIPTION: This course is designed for everyone from Division Engineers to the Operator on production tamping machines (except Mark IV's). Although this course is not technical in nature, a complete discussion of the machines capabilities and limitations will be covered. How to keep your machines working at its peak performance will be discussed. All phases of tamping, surfacing, and lining both tangent and curve track will be covered.

**CLASS DATES:    January 27 - 31, 2003 (One Class Only)**

NOTE: This course is highly recommended for Roadmasters, Track Supervisors, Foreman and Operators.

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**SUBJECT:           ADVANCED ELECTROMATIC MARK IV  
Model HCTREAS Machines**

COURSE DESCRIPTION: This course will cover in detail, the Mark IV, System V production / switch tampers. This will include all aspects covering safety, controls, calibration, and maintenance.

Troubleshooting both the hydraulic as well as the electrical systems will be covered including proper use of test instruments. A thorough discussion of all main tool bars and their functions, plus Smart I/O diagnostics will be covered.

Harsco Track Technologies is continually striving to improve our equipment and to meet your expectations. Therefore, Friday morning will be reserved for your comments and suggestions.

**CLASS DATES:    February 3 - 7, 2003  
                      March 3 - 7, 2003**

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**SUBJECT:           ADVANCED JACKSON 6700**

COURSE DESCRIPTION: This course will cover in detail, the Jackson 6700 production / switch tampers. This will include safety, controls, calibration, maintenance, and troubleshooting.

A thorough discussion of the electrical, hydraulic, and pneumatic systems will be covered in detail, including the various adjustments of these systems.

**Class Date:       February 10 - 14, 2003  
                      March 10 - 14, 2003**

**REGISTRATION FORM**

Name: \_\_\_\_\_ Company: \_\_\_\_\_

Co. Address: \_\_\_\_\_

Billing Address: \_\_\_\_\_

(if different from above) \_\_\_\_\_

Please indicate courses to attend:

- |                          |                   |                        |
|--------------------------|-------------------|------------------------|
| <input type="checkbox"/> | Basic School      | January 6 - 10, 2003   |
| <input type="checkbox"/> | Adv. Mark II      | January 13 - 17, 2003  |
| <input type="checkbox"/> | Adv. Mark III     | January 20 - 24, 2003  |
| <input type="checkbox"/> | Application       | January 27 - 31, 2003  |
| <input type="checkbox"/> | Adv. Mark IV      | February 3 - 7, 2003   |
| <input type="checkbox"/> | Adv. Jackson 6700 | February 10 - 14, 2003 |
| <input type="checkbox"/> | Adv. Mark III     | February 24 - 28, 2003 |
| <input type="checkbox"/> | Adv. Mark IV      | March 3 - 7, 2003      |
| <input type="checkbox"/> | Adv. Jackson 6700 | March 10 - 14, 2003    |

**REGISTRATION FORM**

Name: \_\_\_\_\_ Company: \_\_\_\_\_

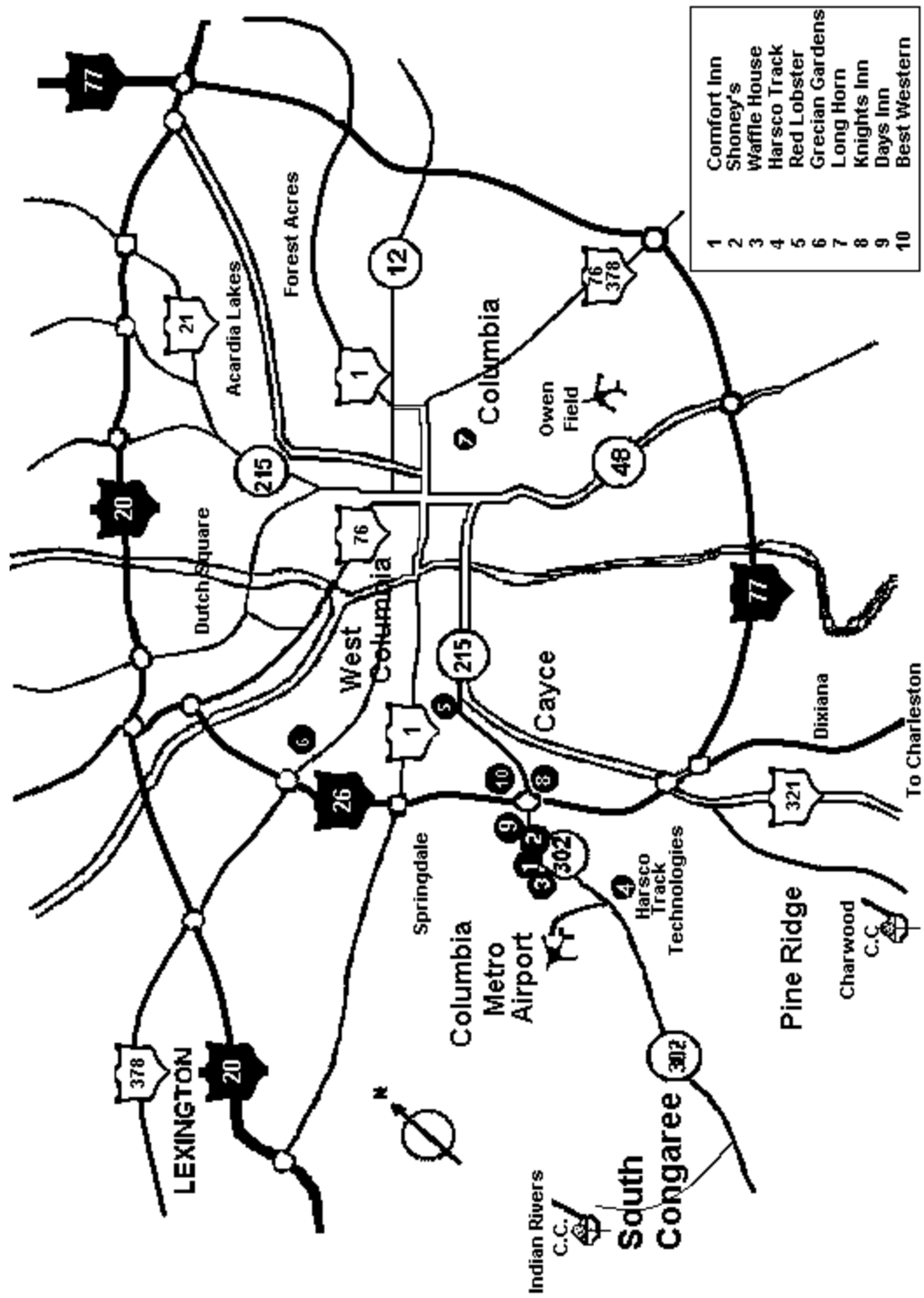
Co. Address: \_\_\_\_\_

Billing Address: \_\_\_\_\_

(if different from above) \_\_\_\_\_

Please indicate courses to attend:

- |                          |                   |                        |
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| <input type="checkbox"/> | Adv. Jackson 6700 | February 10 - 14, 2003 |
| <input type="checkbox"/> | Adv. Mark III     | February 24 - 28, 2003 |
| <input type="checkbox"/> | Adv. Mark IV      | March 3 - 7, 2003      |
| <input type="checkbox"/> | Adv. Jackson 6700 | March 10 - 14, 2003    |



1	Comfort Inn
2	Shoney's
3	Waffle House
4	HarSCO Track
5	Red Lobster
6	Greccian Gardens
7	Long Horn
8	Knights Inn
9	Days Inn
10	Best Western