

Hach JOB Cal Plus™ SPECIFICATION

PART 1 - GENERAL

- 1.01 Scope
Software shall be installed pre-configured with equipment and tasks. Program CD and documents for all software programs shall be supplied and operator training as specified.
- 1.02 General
The system shall be "user friendly" using standard Windows conventions. The system will provide a calendar for planning, tracking, and reporting of all maintenance information and activities. Simple back-up routines shall be available.
- 1.03 Submittals
Product bulletins on software items shall be provided.
- 1.04 Manufacturer
Operating system software shall be Windows 95, 98, ME, 2000, XP or NT by Microsoft. Maintenance Management software shall be **JOB Cal Plus™** by the Hach Company

PART 2 - PRODUCTS

- 2.01 Software
- A. Maintenance
1. A Computerized Maintenance Management System (CMMS) shall be provided to manage the maintenance operation. Data shall be stored in a Microsoft Access format.
 2. The primary screen shall show a calendar displaying all due and completed jobs. Each job shall display on the calendar the equipment and short description of the work to be done. Jobs will be color coded to show when they are due, when they are late and when they are done. The calendar shall be able to scroll back 4 weeks and forward 52 weeks showing every job completed or to be done during this time frame. When a job is selected its detail (instructions, hours worked, cost accrued, and notes) shall be automatically displayed. The calendar shall be able to be filtered to show only jobs for selectable criteria. A *DRAG & DROP* feature shall be capable of rescheduling jobs. Jobs shall be closed with a single button on the calendar. No separate procedure is required to close a job.
 3. Equipment definitions shall be added, changed, deleted, or listed via a fill in the blank form structure.

4. Maintenance task definitions, linked to individual pieces of equipment, must allow a description of the task, frequency (Number of days, meter reading, or both), time required, allow special instructions of unlimited text to be included and specify required parts. This information must print on work orders.
5. Printed work orders shall not be required but will be available for printing at the touch of a button. A complete work order history for reports and analysis must be stored to disk.
6. Inventory records shall be available with quantity on hand, reorder point and quantity, and vendor. Tasks can assign inventory items, which will allow automatic reduction of quantity on hand and accumulate costs when closing work orders.
7. Employee records with wage rates shall be available for assigning work and accumulating costs.
8. The software shall be network capable allowing multiple simultaneous users. Licenses for _____ number of users shall be included.

B. Interface

1. Provide interface to SCADA HMI software (Specification Section #) for automatic collection of daily data from historical file. DDE interfaces are not acceptable.
2. Optional interface shall be available to Palm PDA's.

PART 3 - EXECUTION

3.01 Installation

Install maintenance software on the computer and configure 30 pieces of equipment and ten tasks.

3.02 Training

Provide factory certified training on site for three days.

3.02 Support

Provide 1-800 phone support.