

SECTION 01 79 00
DEMONSTRATION AND TRAINING

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Demonstrating equipment.
- B. Instruction and training of owner's personnel.

1.2 DEMONSTRATING EQUIPMENT

- A. Demonstrate operation and maintenance of Products to Owner's personnel 2 weeks prior to date of Substantial Completion.
- B. For equipment or systems requiring seasonal operation, perform demonstration for other season within six months.
- C. Utilize operation and maintenance manuals as basis for instruction. Review contents of manual with Owners' personnel in detail to explain all aspects of operation and maintenance.
- D. Demonstrate start -up, operation, control, adjustment, trouble -shooting, servicing, maintenance, and shutdown of each item of equipment at agreed -upon times, at equipment location.
- E. Prepare and insert additional data in operations and maintenance manuals specified under Section 01 78 00 CLOSEOUT SUBMITTALS when need for additional data becomes apparent during instruction.

1.3 INSTRUCTION AND TRAINING OF OWNER'S PERSONNEL

- A. Before final inspection, instruct Owner's designated personnel in operation, adjustment, and maintenance of products, equipment, and systems, at agreed upon times.
- B. For equipment requiring seasonal operation, perform instructions for other seasons within six months.
- C. Use operation and maintenance manuals as basis for instruction. Review contents of manual with personnel in detail to explain all aspects of operation and maintenance.
- D. Formal instructional time for training Owner's personnel:
 - 1. General overview of Record Documents: Not less than 3 hours, which shall include:
 - a. Record Drawings.
 - b. Record Project Manual.
 - c. Operation and Maintenance Manuals.
 - d. Finishes Manuals.
 - e. Warranty and maintenance agreements.
 - f. Test reports and inspections.
 - 2. Fire protection systems and equipment: Not less than 6 hours.
 - 3. Fire alarms systems and equipment: Not less than 8 hours.
 - 4. HVAC systems and equipment: Not less than 32 hours.
 - 5. Plumbing systems and equipment: Not less than 6 hours.
 - 6. Electrical systems and equipment (including emergency generator): Not less than 32 hours.

7. Audio-visual systems, sound systems and similar equipment: Not less than 4 hours.
 8. Other utility connected systems, control systems, security systems, and similar equipment: Not less than 8 hours.
- E. Construction Manager's personnel designated for owner training shall be competent and knowledgeable and have good communication skills.
1. Instructors shall arrive at scheduled training sessions on time and be fully prepared to teach using a preplanned training program.
 2. All instructors are subject to the Owner's approval. Replace unacceptable instructors and reschedule training as directed by the Owner at no increase cost to the Owner.
- F. Video Training Record: Video record the instruction and training of the Owner's personnel.
1. Submit 2 DVD copies to Owner upon completion of training sessions.
- G. Final payment is condition precedent on completion of Owner training (instruction).
- Construction Manager is required to submit affidavit that training and instruction of Owner's personnel is completed.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION