Appendix 21-A

Powered Industrial Truck (PIT)

Operator Training Outline

1. **Introduction**
    a. Overview of the Program (include OSHA Regulations).
    b. Goal of the Program:
        1. Provide a training program based on the trainee's prior knowledge, the types of vehicles used in the workplace, and the hazards of the workplace.
    c. Course will utilize video, group discussion and hands-on practice. Each operator must obtain the knowledge and skills needed to do their job correctly and safely.

2. **Types, Features, and Physics**
    a. Familiarize each operator with the basic types and functions of powered industrial trucks.
    b. Develop an understanding of the information shown on a data plate.
    c. Understand the critical truck measurements that affect safety.
    d. Understand the forces that causes a tip-over, and the truck design considerations and safety ratings that help prevent them, including the "stability triangle."

3. **Inspecting the Vehicle**
    a. Understand the purpose and importance of pre-operational checkouts.
    b. Provide a basic understanding of areas covered during a pre-operational checkout.
    c. Familiarize each operator with a checklist for pre-operational checkouts, and what to do if a problem is discovered.

4. **Driving the Truck**
    a. Understand the elements of safe movement of a PIT.
    b. Understand the differences between an automobile and a powered industrial truck.
    c. Recognize the safety hazards associated with operating a powered industrial truck.

5. **Load Handling**
    a. Understand the elements of load lifting safety.
    b. Understand the safe operating procedures for raising and lowering loads in aisles.

6. **LPG for Lift Trucks**
    a. Discuss LPG and its properties.
    b. Understand the elements and procedures of safely refueling internal combustion vehicles.
    c. Describe tank components: service/surge/relief valves, etc.
    d. Discuss related safety issues.

7. **Battery and Charging**
    a. Understand the elements and procedures of safely changing and charging batteries.
    b. Discuss filling procedures and maintenance.
    c. Discuss related safety issues.

8. **Safety Concerns**
    a. Review/reinforce potential of serious injury.
    b. Review/reinforce specific work site safety procedures.

9. **Specific Truck and Workplace Training/Hands-On**
    a. Review the features of the specific PIT's to be operated. Include any placarded warnings / precautions required.
    b. Review operating procedures of specific PIT's to be operated. Include truck controls and instrumentation their operation and function.
    c. Review the safety concerns of specific PIT's to be operated.
        1. Vehicle Capacity
        2. Stability
        3. Refueling / charging of equipment
        4. Operational limitations
        5. Fork and attachment adaptation, operation and limitations
    d. Engine or motor operation, Steering and maneuvering and visibility limitations.
    e. Review workplace conditions and safety concerns of areas where PIT's will be operated.
        1. Surface conditions
        2. composition of loads and stability
        3. load manipulation
        4. Pedestrian traffic
        5. Narrow aisles or restrictions when in operation and their impact on safety
        6. Ramps and sloped surfaces
        7. Ventilation requirements
    f. Learn/practice actual operation of specific PIT's to be operated and specific workplace conditions where PIT's will be operated.
    g. Demonstrate proficiency performing the PIT operator duties specific to the trainee's position and workplace conditions.

10. **Written Exam/Certification of Completion of the Course**