

# DIGGER/DERRICK

## Operation & Safety Training Course

Typically provided as a **1-day course**, training includes classwork in the morning and hands-on instruction in the afternoon. Course is designed as an introduction for new employees and as a safety refresher for more experienced employees. When provided **as a 2-day advanced** course, the training program adds a second full day of hands-on skills training and written testing.

### **Classroom Summary:**

**Introduction:** A review of the basic operations of the digger/derrick equipment that the client agency's employees use (Alltec, Elliott, Terex, etc). This portion also will include a consideration of city/county equipment accident case studies.

**Basic Terminology and Equipment Orientation:** Includes a review of the basic components and features of the equipment, including power systems and control overrides.

**Equipment Inspection and Use of Pre-Job Briefing Checklists:** This section reviews a sample pre-job briefing and checklist form that can be used as a tool to promote operational safety while using the equipment.

**External Work Zone Set-Up (Temporary Traffic Control):** Vehicular and pedestrian traffic strategies are summarized by referencing MUTCD Chapter 6 Temporary Traffic Control sections. This includes work in travel lanes, at the roadside and when impacting sidewalk use.

**Job Site Hazard Analysis:** A consideration of how to identify existing and potential job hazards in association with the equipment and assess risk and identify methods to mitigate or eliminate those hazards.

**Underground/Overhead Utility Hazards:** A discussion of the above and below-ground power line configurations, with emphasis given on accident prevention methods and safe work practices when operating near power utilities.

**Imperative Operator and Worker Safety Rules:** Includes rules that operators must obey to prevent serious accidents, and close-proximity rules for workers acting as spotters or who perform special "close-to-machine" tasks. Also includes the basic PPE and hand signals that workers should use during equipment operation.

**Pole Removal / Installation:** Basic set up of equipment in work zone is discussed, including positioning of derrick and how to use the boom and auger to dig holes, and properly lift and position the pole into place. The basic steps on how to safely remove an existing pole will also be considered.

**Proper Stowing of the Boom / Shut-Down Procedures:** A review of issues related to vacated work zones and how machinery should be stowed when not in use and/or left unattended.



### **Hands-On Exercises:**

- Work Zone Set-up
- Stabilizer / Outrigger Set-up
- Boom and Auger Operations
- Practice Digging, Pole Installation & Removal
- ...and more!