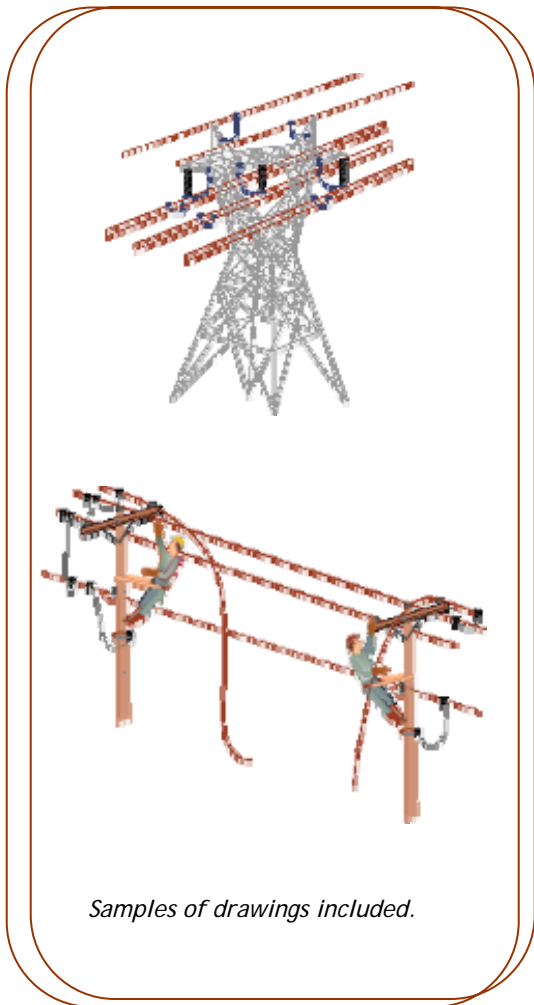


# Practical Grounding Procedures

*Nineteen drawings describe specific examples for achieving Equal Potential Zone Grounding enhancing worker safety.*

Priced at \$29.95 US per copy and discounts available for quantities of 25 or more.



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# Protective Grounding Procedures and Manuals for Overhead & Substations

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## New 72 pg. Booklet

Finally a practical grounding procedure for protecting workers while working de-energized circuits and equipment in substations, and on transmission or distribution circuits. Grounding Principles and Practices are detailed and reference to generally accepted grounding standards is provided.

This 72 page booklet contains drawings of nineteen (19) specific grounding examples that achieve "Equal Protective Zones" for workers working on de-energized equipment and circuits.

The proper use and limitations of Portable Grounding Mats for mitigating Step & Touch Potential Hazards is explained.

A section is devoted to purpose and intent of grounding vehicles used in close proximity or for aerial line maintenance.

The purpose of this pamphlet is to increase worker awareness of the hazards associated with de-energized work and assist in making their work safer.

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*Drawings help increase worker awareness.*

### 18.5 Three Phase Armless With Shield Wire on Pole

1. Perform General Grounding Procedures.
2. Repair pole ground adding staples as required to ascertain positive contact with pole. Install grounding cluster immediately below feet position. When possible the ground cluster should be positioned above communication circuits. Avoid damaging pole ground. (If necessary, position ground cluster below communication cables and bond all communication cables to cluster using approved ground sets.)
3. Install one end of ground jumper to the ground cluster and the other to static down lead at or near the secondary position.
4. Clamp one end of next ground set to ground cluster and the other to the closest phase conductor
5. Clamp one end of the next ground set to grounded phase and second end to the next closest phase conductor.
6. Clamp one end of the next ground set to the last phase grounded and the other end to the last phase conductor.
7. Clamp one end of the next ground set to the closest phase conductor and the other to the static conductor.
8. Remove grounds in reverse order.

CAUTION – Ground personnel shall avoid contact with or working near pole grounds.

Worker Shown is in an Equal Potential Zone

Figure 18.5

*Example*



## About the Author

Mr. Wayne Blackley, a Registered Professional Engineer and graduate of Texas A&M University, began his electrical career as a lineman. He is a member of the Texas Society of Professional Engineers, a Senior Life Member of the Institute of Electrical and Electronic Engineers, and the American Society for Testing & Materials. He currently serves on ASTM committees F18 Electrical Protective Equipment for Workers, D09 Electrical & Electronic Insulating Materials and is a Principle Member of Sub-Committee 8 (Work Practices) on the National Electrical Safety Code®.

He has held the position as Director of the Multi-Amp Institute Training Facility. He served as Vice-President and General Manager of Teague Industries, a construction company that installed overhead and underground electrical and fiber optic systems. Prior to this, he served as Senior Engineer of the Quality Assurance Division for the Comanche Peak Nuclear Project and as Division Supervisor of Distribution for a major utility. He also worked as a System Planning Engineer, System Operating Engineer and T&D Engineer.

Mr. Blackley is an approved instructor in the states of Idaho, Washington and Wyoming for seminars on the National Electrical Safety Code® and code changes on the current document. Mr. Blackley has served as President and Senior Consultant for Associated Training Corporation since 1990. As a consultant he has established his position as an authority on Protective Grounding, use of protective equipment and fault/arc flash

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