



TOOLBOX

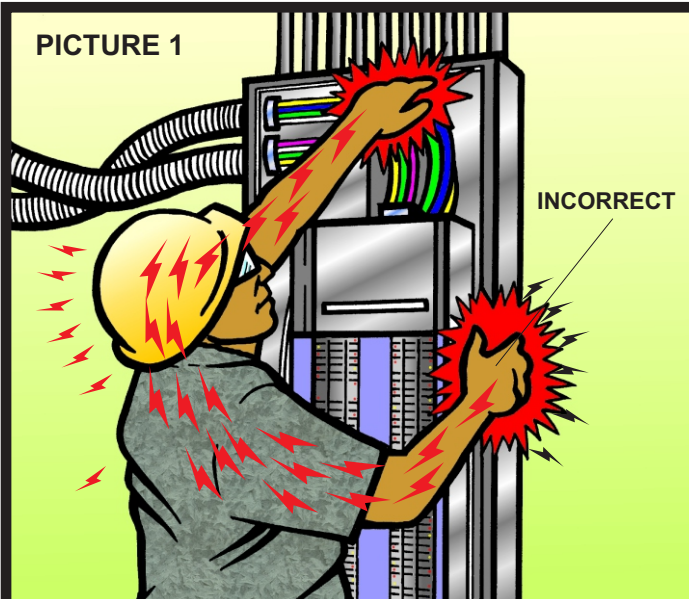
SAFETY TRAINING

Company _____ Location _____ Date _____

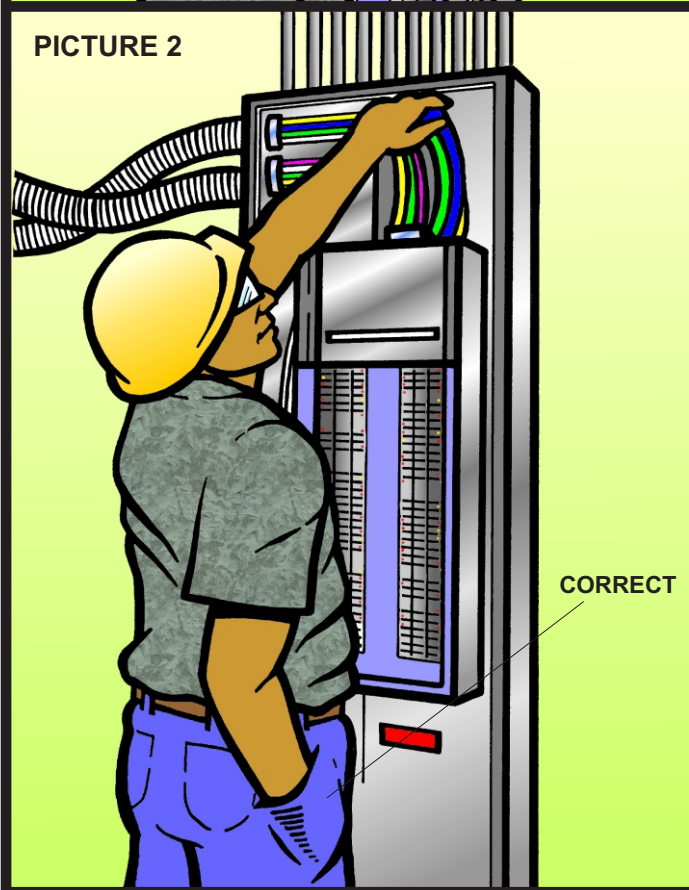
Vol 32 - No 26

ELECTRICAL TROUBLESHOOTING

PICTURE 1



PICTURE 2



Many times while installing the electrical wiring in a building an electrician has problems with lights, electrical outlets or some other problem. While we hope to get it installed correctly on the first try, “Murphy’s Law” many times prevails.

So an electrician will be called to solve the problem. This will call for the worker to trace out the wire with the problem. One good rule of thumb is to use one hand to trace the wire from the breaker into the conduit while the other remains in your pocket. This may seem silly but it could save your life.

Let’s assume there is an unnoticed nick in the insulation and as the electrician runs his finger along the insulation, he comes across the nick. If his other hand is touching the metal panel, the electricians hands, arms and body will become an unexpected circuit (see picture 1).

So by making sure one hand remains in your pocket (picture 2), you will eliminate the circuit and the chance for an unexpected shock. This rule has been used by wise electricians for a long time and it needs to be incorporated it into your thinking today.

A publication of **ESC Safety Consultants, Inc.** - P. O. Box 709 - DeSoto, Texas 75123 - 1-800-327-1516

Visit our website at www.escsafety.com for a complete list of all our safety services

© 2025 - All rights reserved. This publication may not be reproduced in any manner without the written permission of ESC Safety Consultants, Inc.



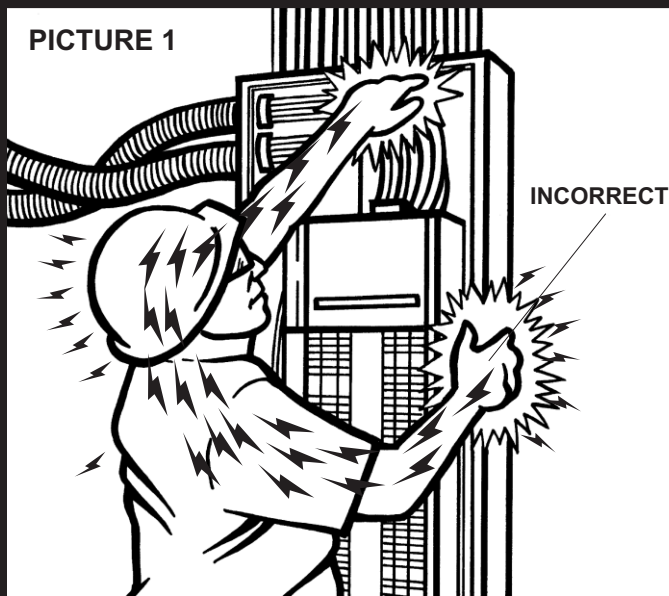
TOOLBOX SAFETY TRAINING

Company _____ Location _____ Date _____

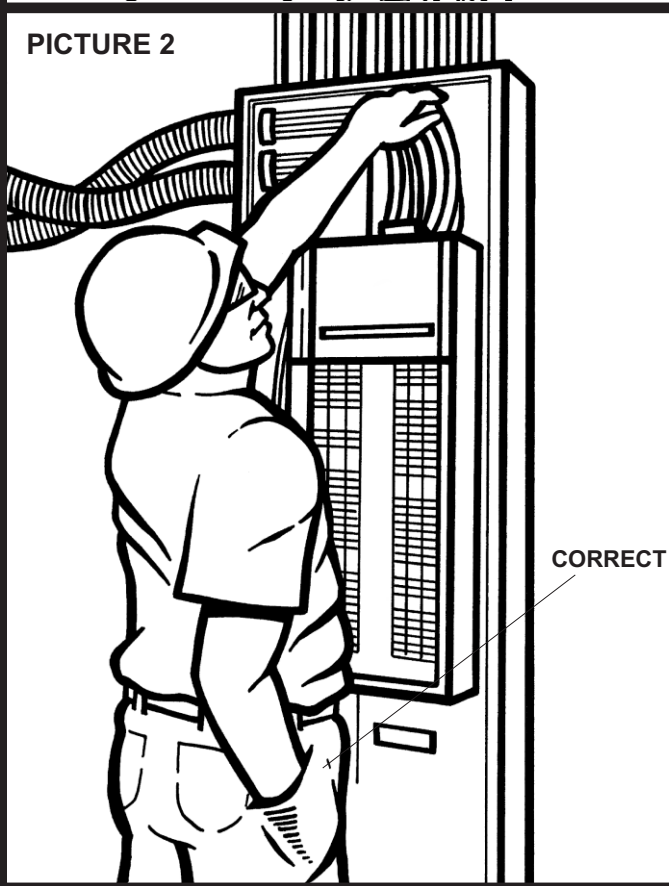
Vol 32 - No 26

ELECTRICAL TROUBLESHOOTING

PICTURE 1



PICTURE 2



Many times while installing the electrical wiring in a building an electrician has problems with lights, electrical outlets or some other problem. While we hope to get it installed correctly on the first try, “Murphy’s Law” many times prevails.

So an electrician will be called to solve the problem. This will call for the worker to trace out the wire with the problem. One good rule of thumb is to use one hand to trace the wire from the breaker into the conduit while the other remains in your pocket. This may seem silly but it could save your life.

Let’s assume there is an unnoticed nick in the insulation and as the electrician runs his finger along the insulation, he comes across the nick. If his other hand is touching the metal panel, the electricians hands, arms and body will become an unexpected circuit (see picture 1).

So by making sure one hand remains in your pocket (picture 2), you will eliminate the circuit and the chance for an unexpected shock. This rule has been used by wise electricians for a long time and it needs to be incorporated it into your thinking today.