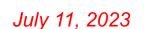


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# HANDS-ON TRAINING – SERVICE TROUBLESHOOTING



1:00 PM – 2:00 PM 2:00 PM – 2:45 PM Fran White / John Williams





### HANDS-ON TRAINING – SERVICE TROUBLESHOOTING SINGLE PHASE

- 1. Prior to setting the single phase (residential) meter (new service installation).
  - a. Depending on your utility's procedures, there may be more things to test than this, but at a minimum.
    - i. Visual inspection:
      - 1. Are the wires the proper gauge and color.
      - 2. Make sure that the conduit connections are secure and flush (no water leakage).
      - 3. Make sure that there is enough service loop in the wires (particularly with underground installations).
    - ii. DVM checks:
      - 1. Check to make sure that the neutral wire is connected properly.
      - 2. Make sure that the meter enclosure is properly bonded to ground.
      - 3. Check for the correct voltages on the line side:
        - a. Line to line
        - b. Line to neutral (both sides)
      - 4. Ensure that there is no existing voltage on the load side.
        - a. Upside down wiring
        - b. Generator or "stolen" power (Diversion).
      - 5. Check for grounding faults on the load side jaws.
      - 6. If all the pre-checks are good, set the meter and confirm that it is operational, and the crawler is moving in the right direction.

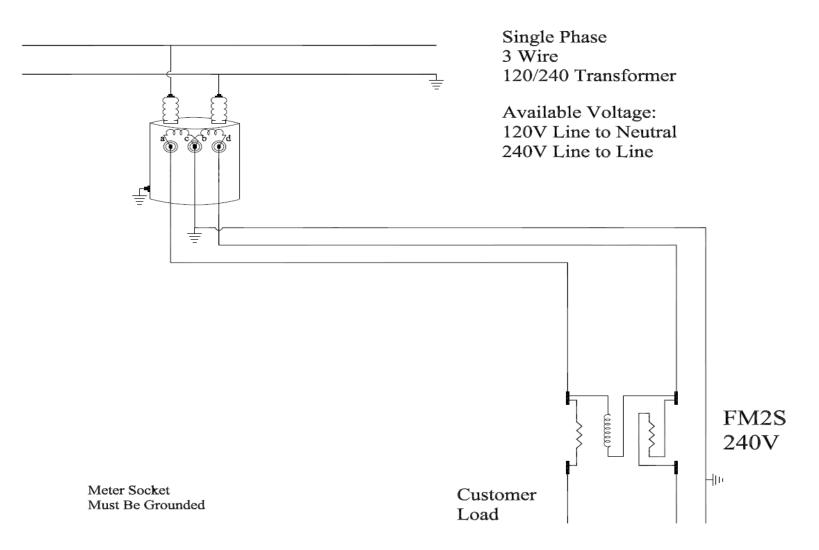


# HANDS-ON TRAINING – SERVICE TROUBLESHOOTING POLYPHASE

- 1. Prior to setting the polyphase phase meter (new service installation).
  - a. Depending on your utility's procedures, there may be more things to test than this, but at a minimum.
    - i. Visual inspection:
      - 1. Are the wires the proper gauge and color.
      - 2. Make sure that the conduit connections are secure and flush (no water leakage).
      - 3. Make sure that there is enough service loop in the wires (particularly with underground installations).
    - ii. DVM checks:
      - 1. Check to make sure that the neutral (if used) wire is connected properly.
      - 2. Make sure that the meter enclosure is properly bonded to ground.
      - 3. Check for the correct voltages on the line side:
        - a. Line to line
        - b. Line to neutral (each phase)
      - 4. Ensure that there is no existing voltage on the load side.
        - a. Upside down wiring
        - b. Generator or "stolen" power (Diversion).
      - 5. Check for grounding faults on the load side jaws.
      - 6. Check for proper phase rotation coming into the line side jaws.
      - 7. If all the pre-checks are good, set the meter and confirm that it is operational, and the crawler is moving in the right direction.

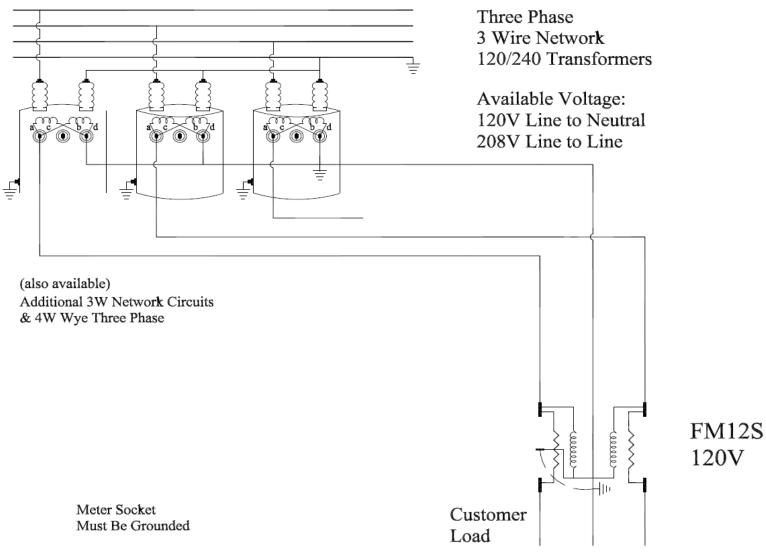


## HANDS-ON TRAINING – SERVICE TROUBLESHOOTING POLYPHASE





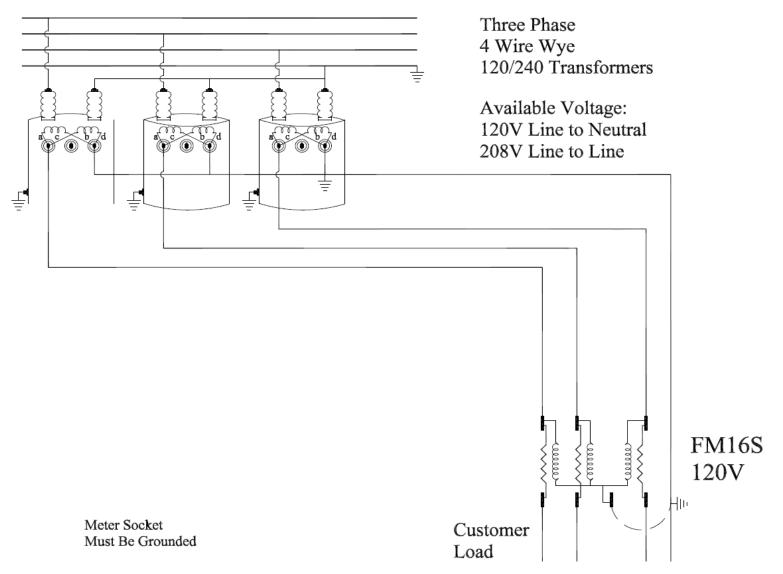
# HANDS-ON TRAINING – SERVICE TROUBLESHOOTING POLYPHASE



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# Hands-On Training – Service Troubleshooting Polyphase



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# **QUESTIONS AND DISCUSSION**

# Fran White

Senior Meter Technician TESCO Metering

Bristol, PA 215.228.0500



This presentation can also be found under Meter Conferences and Schools on the TESCO website: tescometering.com

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# **QUESTIONS AND DISCUSSION**

# John Williams Vice President of Engineering TESCO Metering Bristol, PA 215.228.0500



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