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1. Network Theory
    a) Why in the network protector used in the system?
    b) Purpose of the protector fuse
    c) Purpose of cable limiters
    d) Basic function of the protector relay
    e) What causes reverse current
    f) What created differential voltage across the protector so it will close

2. Print Reading
    a) Review Trip and Close sequence for all type protectors.
    b) Identify the parts shown on the diagrams on the protector.
    c) Learn the differences between the GE and WH wiring.

3. Relays
    a) ETI MNPR® -- Learn how to program all parameters.
    b) Learn what happens when any parameter is changed.
    c) Learn how to use the MNPR® to help troubleshoot a protector.

4. Network Protectors
    a) General Electric MG8/9
        i. Identify all components on the protector
        ii. Break the protector down and reassemble.
        iii. Use the wiring diagrams, schematics and MNPR® to find a problem created by the instructors.
    b) Richards 313NP
        i. Identify all components on the protector
        ii. Break the protector down and reassemble.
        iii. Use the wiring diagrams, schematics and MNPR® to find a problem created by the instructors.

Schedule

Day 1

8:00 – 8:30	Registration, Coffee & Doughnuts
8:30 – 9:00	Introductions, Network history & background information
9:00 – 10:00	Print reading – 137NP (GE MG8/9 protector)
10:00 – 10:15	Break
10:15 – 11:30	Protector overview – start taking apart the protector. Identify the items on the wiring diagrams on the protector.
11:30 – 12:30	Lunch
12:30 – 1:15	Protector overview continued.
1:15 – 1:30	Break
1:30 – 3:00	"Final Exam". Use all available tools (schematics, MNPR®, multi-meters and anything else available) to find some instructor created problems.

Day 2

8:00 – 8:30	Brief review.
8:30 – 9:00	Print reading – 313NP (Westinghouse CM22 style protector)
9:00 – 10:00	MNPR® class room training.
10:00 – 10:15	Break
10:15 – 11:30	Protector overview – start taking apart the protector. Identify the items on the wiring diagrams on the protector.
11:30 – 12:30	Lunch
12:30 – 1:15	Protector overview continued with MNPR® hands on training.
1:15 – 1:30	Break
1:30 – 3:00	"Final Exam". Use all available tools (schematics, MNPR®, multi-meters and anything else available) to find some instructor created problems.