

**Required Tool List:**

- Set of Open End or Boxed End Wrenches (English & Metric)
- 3/8" Drive Socket Set (English & Metric)
- Phillips Head & Flat Blade Screwdrivers
- 1 Wire Stripper & Crimper Tool
- Needle Nose Pliers & Common Pliers
- A Notebook
- Work Clothes
- Flashlight
- Feeler Gauges

**--MULTI-METER \*\*\*essential tool, please try to purchase a digital meter in the \$30 to \$50 range, (examples Fluke 101, Klein MM300, Ideal 61-327).**

Optional tool. For the student that wishes to excel in DC current trouble shooting you may want a clamp type multi-meter that will read DC AMPS (example, Ideal 61-747, AEMC 505).

**IMPORTANT: Bring detailed pictures of your engine and boat if you have them, as well as the manual. Do bring plenty of questions and sea stories.**

**\*\*\*Engine owners are welcome to bring their own engine to the class. Please call Jon in advance to discuss this option. Bring the engine manual and a list of the engine's troubles. Also needed is the make and model of the engine.**

**SUGGESTED READING:**

\*Troubleshooting Marine Diesel Engines – Peter Compton

\*Marine Diesel Engines – Nigel Calder