

F101 - INTRODUCTION TO BASIC TIME & STRIKE

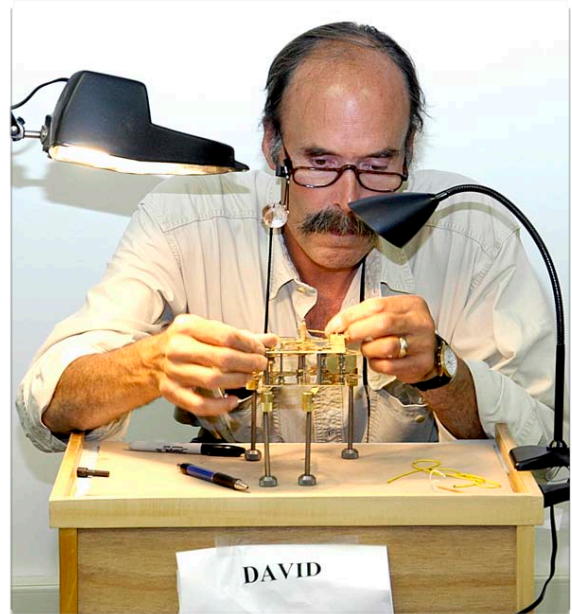
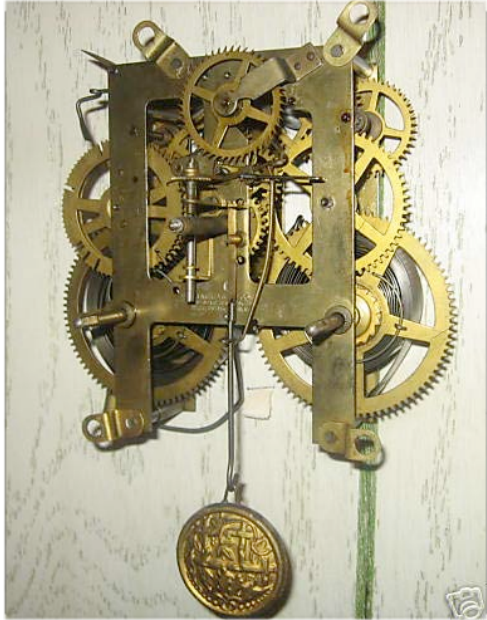
THE AMERICAN KITCHEN CLOCK

4 days of instruction: only \$335!

Tuition \$300 (To the NAWCC) + \$35 (To Chapter 190) Classroom Fee
(Non NAWCC members add a \$70 supplemental fee)

Instructor: Ray Marsolek
Contact: Ralph Napolitano
(805) 509-2530

email: ralphnapolitano@msn.com



October 7-10, 2011

Santa Paula Odd Fellows Lodge

868 Main Street, Santa Paula, CA.

This course is for entry-level students wanting to learn and gain confidence in the fundamentals of clock repair and will prepare them for other FSW courses. It contains hands-on practice in component definition, part handling, disassembly, cleaning, assembly, minor troubleshooting and testing. Students may have time to work on more than one movement during this four-day course. There is no pre-requisite.

Clock Requirements for F101:

IMPORTANT: The only type of clock the student can use in this class is a time and strike open mainspring movement sometimes referred to as an *American Kitchen Clock Movement*. No other clock movement will be permitted in this class so please concur with this request. These clocks can be purchased at NAWCC Regional or Chapter meetings. If you have any questions about the movement for this class you can call the Class Coordinator (see top right of page).

Limited Class Size!

First come, first serve! Places reserved by pre-payment to

Ralph Napolitano, 91 Caleta Drive, Camarillo, CA 93012

Register early... this workshop is sure to fill quickly!



F101 Basic Time & Strike Instruction

- Component Identification and Operation of the Time and Strike Trains
- Movement Disassembly
- Clean Mainsprings and Movement by Hand and Ultrasonic Cleaner
- Practice Assembly of T&S Trains
- Straighten Wheel Teeth, Arbors, Pivots
- Polish Pivots
- Lantern Pinion Repair
- Bushing and Broaching to size by hand
- Click Component Repair
- Clutch Mechanism
- Governor (fly)
- Hammer Pad Replacement
- Verge and Crutch Repair

- Suspension Spring
- Tighten Loose Wheels on Arbors
- Problems with Levers and Lifters
- Final Movement Assembly & Oiling
- Setting Escapement Drop
- Beat Adjustment & Beats Per Hour
- T&S Train Set Up and Troubleshooting



Required Student Supplied Tools

- Bench Vise, Minimum 3 1/2' jaw width
- Box to hold movement and parts
- Loupe/Magnifier 3 & 5 power or visor with 5 power
- Files: 4" or 6" set of Jewelers Files
- Hammers: Brass and 4 oz. Ball Peen
- Leather Gloves
- Paper Towels
- Mainspring Clamps: 2 "C" Clamp

- Movement Holder (hanging assembly/post kit)
- Oiler, with high quality synthetic clock oil
- Pivot Locator
- Pliers
- Safety Glasses
- Screwdrivers: 4-6" long
- Tweezers
- Spring Letdown Key Set with Handle
- Wrench: 4" Crescent Type
- Bench Light & Extension Cord
- Stand appropriate for testing clock

Please visit

www.nawcc.org/headquarters/suitcase/suitcase.htm

for additional detailed information!

This Workshop Sponsored by NAWCC Chapter 190



Ray Marsolek has been a member of NAWCC since 1975. He is a past chairman of the Education Committee, has taught at the NAWCC School of Horology, and is presently a Field Suitcase instructor. His interests are in collecting and maintaining precision regulator movements. He has 36 years of clock experience.

Ray's workshop is a mixture of new and old technologies. He brings years of machinist expertise to the bench. He is willing to try new methods of repair—always remembering that the ultimate goal is to restore the movement to its original condition without doing any harm to it. Ray resides in Arroyo Grande with his lovely wife Alvina.

