

Beyond Clock Repair Basics

A brief review and practice for skill development

- I. Principles of solid clock repair—a review of the CC21 program.
 - A. The development of the 26 steps.
 - B. What level of work is considered acceptable?
 - C. Using the Clock Standards and Practices to grow your skills.

- II. Pivot work-basic and advance
 - A. Why we burnish and its effects on a pivot and kinds of burnishers.
 - B. Prepping a burnisher—Grits and surface quality
 - C. Burnishing pivots—what to look at and look for as you work.
 - D. Burnishing any surface facing friction.

- III. An in-depth study of depthings
 - A. What is a proper depthing and how do we measure it?
 - B. Mapping out the parts of a depthing
 - C. Bushing work
 - 1.) The basics—the tools and their capacities (cutting broaches and reamers).
 - 2.) When the depthing is off—eccentrics and how to make them.
 - 3.) When the bushing won't hold: options.
 - 4.) Burnishing the pivot hole and how to prep the smooth broach for burnishing.
 - 5.) Making custom bushings—materials and techniques.

- IV. Advanced pivot work
 - A. Determining pivotal quality and size—determining when to replace.
 - B. Replacing a pivot—finding center and stabilizing the work (sleeve protectors).
 - C. Repivoting work that is not centric to the shaft.
 - D. Drill guides and how to make them.

- V. Mainspring work
 - A. Handling mainsprings—hands or tools
 - B. Checking out the quality.
 - C. Determining the best replacement.
 - D. Click and rivet repairs.

- VI. Miscellaneous work
 - A. Strike/chime lever work.

- B. Return springs—need for careful consideration of strength.
- C. Lantern pinion work—several methods.
- D. Knurling and knurling tools.

VII. A brief review of escapement adjusting.

- A. 10, 40, 40, 10 rule.
- B. Drop, lock and lift.
- C. Pallet finishing
- D. Crutch and other parts—a review.

VIII. Q and A of the day's work.