

## **COLOR CASE HARDENING**

**\$400 or 2 credit hours**

This course focuses on first-hand experience in color case hardening. Includes equipment, metal preparation, types of charcoal, quenching mediums, and source of supplies. Students should bring two or three suitable actions and other parts (grips caps, butt plates, or similar small parts) to be color case hardened. Contact the instructor to make sure your actions are suitable for color case hardening.

**Ryan Newport** is an alumnus of Trinidad State College. After graduation he spent several years working as a repair gunsmith for Browning Arms on their high end line of shotguns and rifles. Ryan returned to TSC in 2011 as an Associate Professor of Gunsmithing teaching Bench Metal, Firearms Conversions, Firearms Metal Finishing, Alternative Metal Finishes, Shotgunsmiting, Custom Pistolsmithing, and Firearms Repair.

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*Ryan Newport*

### Tool list

- Safety glasses
- Pliers with wire cutters
- A small set of Gunsmith screwdrivers
- Assorted hand tools to disassemble any firearm that you may be working on
- 1 box of latex gloves
- A selection of quality (3M, Norton, or Klingspore) polishing paper from 120-400 grit
- 1-2 projects pre-approved by the instructor to be color case hardened. Not all actions and steel can be case hardened.

This class has quite a bit of down time during the heating phases. If students would like to bring projects to work on not related to case coloring, they may do so with the instructor's permission.