

Smith & Wesson Revolver Basic Armorer (Tuning)

June 22-26, 2026

\$400 or 2 credit hours

Course incorporates double action revolver function, trouble shooting, inspection, timing and tuning on Smith & Wesson Revolvers. Students bring their own revolvers to work on.

Instructor: Gary Marshall

STANDARD COMPETENCIES:

- I. Upon completion of this course students will demonstrate an understanding of the design, engineering, function, and tuning of the Smith & Wesson double action revolver. Student will show competency in the inspection, measurement, assembly and disassembly, and action tuning of Smith & Wesson revolvers that they possess.
 - A. Inspection and measurement
 - B. Function checking
 - C. Troubleshooting
 - D. Action tuning and removing metal interferences.
 - E. Re- measurements and testing at Range

TOPICAL OUTLINE

Introductions
Shop rules – no live ammo
Safety glasses at all times When in doubt, ASK
Nomenclature
As brought measurements
Disassembly and cleaning
Diagnosing problems and minor repairs
Polishing and parts replacement
Assembly and measurement
Cylinder issues- end shake, carry-up
Barrel replacement
Sights
Stocks
Timing issues

During class time, these other issues will be introduced to give the student insight into the history and development of Smith & Wesson Revolvers

How patents influenced firearms development
Number 1, 2, 11/2 and 3 Tip- Up revolvers
Early single action Top Break revolvers
Double Action Top Break Revolvers
Hammerless Revolvers

Hand Ejector revolvers development

Frame sizes

Ammunition calibers

Representative examples of many of these revolvers will be furnished by the instructor

Smith & Wesson Basic Armorer tool and supply list

Smith And Wesson Revolver(s) to work on

Gunsmithing Screwdriver set	Brownells 080110084 (only need S&W bit set part 080087004 with handle), or other
6x1/2x1/2 Fine India Stone	Brownells 657246246
S&W Rebound Spring Slide Tool	Brownells 080666000
Small non marring hammer	
Flat Punch set	
Return spring for your frame size 14 lb or assortment Wolff Springs or other company	
Mini pick and hook set	Pittsburgh at Harbor Freight tool (orange handle) or similar
A few empty and cleaned brass cartridge cases for your caliber(s)	
Gun oil	
Gun solvent (Hoppe's) or other	
Cleaning supplies, patches, rods, brushes rags	
Bench Mat and bench block	
Eye protection	
Ammunition for test firing at the range of Friday (eye and ear protection)	

Optional

S&W KLNJ hand window file	Brownells 080754000
.072 long cup tip punch #3	Brownells 080620003
.050 long cup tip punch #6	Brownells 080620006