



Program Overview

The Basic Gun Repair Course is meant for the hobbyist, and consists of Lessons 1-31 and 4 projects. The Advanced Gunsmithing course, consisting of Lessons 1-65, and 7 projects, offers a comprehensive understanding of the entire firearm's industry—from manufacturing to everyday gun owner operations. This course is designed to introduce students to the concepts and skills needed by the professional gunsmith.

▼ Introduction

- Course introduction
- Glossary of Gunsmithing Terms

▼ Unit 1

- Gunology

LESSON 1

- Where and How to Begin
- 38 Smith & Wesson Chief Special

LESSON 2

- Safety- First, Last and Always
- .45 Colt M-1911

LESSON 3

- Beginning Your First Project
- .38 Smith & Wesson Military & Police
- Gun Laws & Gun Repairemen

▼ Unit 2

LESSON 4

- Completing Your First Project
- Ruger Bearcat
- Sources of Supply

LESSON 5

- Basics of Stock Finishing & Refinishing
- Ruger Automatic
- Your Workshop

LESSON 6

- How to Get Professional Stock Finishing Results
- Charter Revolver
- Bookkeeping-Legal and Financial

▼ Unit 3

LESSON 7

- Fitting Custom Recoil Pads
- Colt Single Action Revolver
- Buying & Selling Firearms

LESSON 8

- Butt Plates, Swivels and Pads
- Hi-Standard Sentinel Revolver
- Gun Laws & Legislation

LESSON 9

- Checkering Fundamentals
- Daisy Air Rifle
- Your Federal Firearms Records

▼ Unit 4

LESSON 10

- Checkering Extras and Carving
- Crosman 760
- Public Relations and Advertising

LESSON 11

- Setting Up Your Own Shop
- Remington M-550
- Firearm Service Records

LESSON 12

- Setting Up Your Workbench
- Remington M-572
- Gunpowder and Ballistics

Project 1 - Stock finishing

▼ Unit 5

LESSON 13

- Your Guide to Hand Tools
- Remington M-66
- History and Development

LESSON 14

- Your Guide to Measuring Tools
- Remington M-514
- National Rifle Association

LESSON 15

- How to Choose the Right Power Tools
- Marlin M-39A
- Beretta M-92F

LESSON 16

- More About Power Tools and Their Use
- Remington M-580-581-582
- Building Your Library

Project 2 - Precision filing

▼ Unit 6

LESSON 17

- How to Choose Your Lathe
- Savage M-88
- How to Read Precision Instruments

LESSON 18

- How to Use (Adjust) Your Lathe
- Savage M-24 Combination
- Sights, Repair, and Installation

LESSON 19

- Step-by-Step Soldering
- Winchester M-200 Series
- Telescope Sight Mounting

Project 3 - Silver soldering

▼ Unit 7

LESSON 20

- Step-by-Step Welding
- Marlin M-49 and 99 Series
- Butt Stock Alterations, Recoil Pads and Refinishing Stocks

LESSON 21

- All About Sights
- Winchester M-94
- Bluing Equipment, Tools, Polishing, Cleaning and Failures

LESSON 22

- Sights and Scopes
- Savage M-99
- Advising Your Customers on Selecting Shotguns, Rifles & Handguns

LESSON 23

- Keep It Clean - A Most Important Lesson
- Remington M-700
- Introduction to Hand Loading

▼ Unit 8

LESSON 24

- Cleaning Supplies, Equipment and Lubricants
- Remington M-740-742
- Pricing Your Service Work

LESSON 25

- Basic Repair Methods Part 1
- Remington M-760
- Actions

LESSON 26

- Basic Repair Methods Part 2
- Remington M-788
- Blowups and Cartridge Nomenclature

LESSON 27

- Basic Barrel Repair
- Browning Hi-power
- SAAMI; Unsafe Arms and Ammo Combinations

▼ Unit 9

LESSON 28

- Barrel Rebuilding
- Winchester M-88
- Glock 17

LESSON 29

- Learn Antique Restoration
- Marlin M-336
- Public Relations

LESSON 30

- Antique Restoration in Depth
- Mauser M-98
- Tables of Measurements

LESSON 31

- The Fine Art of Polishing and Jewelery Part 1
- Ithica M-37
- Luger Automatic

Project 4 - Hand tool fabrication

▼ Unit 10

LESSON 32

- The Fine Art of Polishing and Jeweling Part 2
- Remington M-11
- Winchester M-61

LESSON 33

- Learn Custom Finishing and Plating
- Winchester M-12
- Winchester M-26A

LESSON 34

- All About Bluing
- Remington M-1100
- J.C. Higgins M-30

LESSON 35

- Choosing Inletted Stock
- Remington M-870
- Remington M-141

Project 5 - Stone polishing

Project 6 - Bluing preparation

▼ Unit 11

LESSON 36

- Fitting and Shaping the Inletted Stock
- Winchester M-1400
- Remington M-8 and 81

LESSON 37

- Customizing
- Winchester M-1200
- Winchester M-05-07 and 10

LESSON 38

- Customizing and Sporterizing
- Stevens M-311
- Remington M-721-722

LESSON 39

- Accessorizing
- Mossberg M-500
- Remington M-31

▼ Unit 12

LESSON 40

- Full or Part Time
- Stevens M-94
- Winchester M-97

LESSON 41 - Business Administration

LESSON 42 - Head spacing

LESSON 43 - Shotgun Chambers

Project 7 - Micromasurement

▼ Unit 13

LESSON 44 - Shotgun Bores

LESSON 45 - Shotgun Chokes

LESSON 46 - Shotgun Ribs

LESSON 47 - Installing Rifle Barrels

▼ Unit 14

LESSON 48 - Installing Shotgun Barrels

LESSON 49 - Installing Handgun Barrels

LESSON 50 - Installing Center Fire Rifle Barrels

LESSON 51 - Private Brand Names and Serial Numbers

▼ Unit 15

LESSON 52 - Tricks of the Trade

LESSON 53 - Servicing and Building Muzzle Loaders

LESSON 54 - Accurizing the Colt .45 Automatic

LESSON 55 - U.S. M-1 Carbine

LESSON 56 - Noble Shotguns

▼ Unit 16

LESSON 57 - Crosman M-130 Pistol

LESSON 58 - Crosman M-140 Rifle

LESSON 59 - Savage M-110 Rifle (CF)

LESSON 60 - Remington M-11/48 (Mohawk 48)

LESSON 61 - Browning .22 LR Semi-Auto Rifle (RF)

▼ Unit 17

LESSON 62 - Remington 552 Semi-Auto Rifles (RF)

LESSON 63 - Beretta Semi-Auto Shotgun

LESSON 64 - Springfield M-1903 Rifle

LESSON 65 - Colt Frame Models "E" and "I" Revolver

7 Hands-On Projects

This course includes valuable hands-on projects using several different techniques relative to gun repair. All projects, once completed are to be returned with your mail back answer sheet to MGS for evaluation. All project requirements must be met in order to receive your diploma.

Project 1 – Stock finishing

The objective of this project is to acquaint the student with the basic materials, tools, and procedures required to achieve production quality finish on a hardwood gunstock.

Project 2 – Precision filing

The objective of this project is to acquaint the student with the metal removal characteristics of common hand files. Promote awareness of the requirements for precision in the repair or alteration of metal gun parts.

Projects 3 – Silver soldering

The objective of this project is to develop the skills to produce effective, serviceable solder joints as a means to repair damaged parts or as a technique used in pattern making.

Project 4 – Hand tool fabrication

The objective of this project is to fabricate a disassembly tool for a Ruger Security Six Revolver or a Ruger GP 100 Revolver using common materials and hand tools.

Project 5 – Stone polishing

The objective of this project is to acquaint the student with the metal removal characteristics of polishing stones.

Project 6 – Bluing preparation

The objective of this project is to acquaint the student with the level of surface cleanliness and polish required to produce a production-quality bluing job.

Project 7 – Micromasurement

The objective of this project is to provide the student with the hands-on training in micro-measurement using a digital caliper measuring various gun parts to a tolerance of three decimal places.

Supplementary Items

Throughout your course you will receive supplementary items. While not listed in this program outline, these items offer additional sources of information such as gunsmithing tips, articles relative to the firearms industry, and vendor catalog contact information.