



## Program Overview

The Basic Gun Repair Course, designed for the firearms enthusiast, consists of 9 Units, which includes 31 easy to follow lessons and 4 hands-on projects. The Advanced Gunsmithing Course, consists of 17 Units, comprised of 65 lessons and 7 hands-on projects.

### ▼ 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 Repairmen

### ▼ 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 Nylon 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-290/200 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
- Table of Measurements

#### LESSON 31

- The Fine Art of Polishing and Jeweling Part 1
- Ithica M-37
- Luger Pistol

#### 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-62A

#### 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

**Project 7** - Micromasurement

### ▼ Unit 12

#### LESSON 40

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

#### LESSON 41

- Business Administration

#### LESSON 42

- Headspacing

#### LESSON 43

- Shotgun Chambers

### ▼ Unit 13

#### LESSON 44

- Shotgun Bores, Chokes and Ribs

#### LESSON 45

- Parker Double-Barrel Shotgun

#### LESSON 46

- Savage Model 24 Combination

#### LESSON 47

- Installing Rifle Barrels

### ▼ Unit 14

#### LESSON 48

- Installing Shotgun, Handgun and Rifle Barrels

#### LESSON 49

- Ruger #1 Single Shot Rifle
- Ruger .44 Magnum Carbine

#### LESSON 50

- Ruger #3 Single Shot Carbine
- Winchester Model 55

#### 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
- Ruger M-10/22 Carbine
- Winchester M-100

#### LESSON 56

- Noble Shotguns

### ▼ Unit 16

#### LESSON 57

- Crosman M-130 Pistol
- Crosman M-140 Rifle

#### LESSON 58

- Remington Pocket Pistol Model 51
- Browning Model 1922 Pistol

#### LESSON 59

- Savage M-110 Rifle (CF)

#### LESSON 60

- Remington M-11/48

#### LESSON 61

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

### ▼ Unit 17

#### LESSON 62

- Remington M-552 Semi-Auto Rifle (RF)

#### LESSON 63

- Beretta Semi-Auto Shotgun

#### LESSON 64

- Springfield M-1903 Rifle

#### LESSON 65

- Colt Frame Models "E" and "I" Revolvers
- Colt Double Action Revolver
- Colt Official Police Revolver
- Colt Double Action New Army and New Navy Revolvers

## Hands-On Projects

Our courses include 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 Student Center 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 and articles relative to the firearms industry.