

# THE AMERICAN GUNSMITHING INSTITUTE



**Professional Gunsmithing Courses**  
Vocational Distance Education School for Gunsmithing and Associated Trades

## MISSION STATEMENT

The American Gunsmithing Institute exists to provide firearms enthusiasts with the knowledge needed to keep their guns in safe and top notch condition, maximizing their shooting experience and potential in a way that preserves the art of gunsmithing and ensures that the rights of the people to keep and bear arms shall not be infringed.

Gene Kelly, President

## OPPORTUNITIES IN GUNSMITHING

### The Gunsmithing Market

A tremendous market for gunsmiths exists that is often overlooked, with more than 70 to 80 million firearms owners in the U.S. According to the National Rifle Association (NRA), more than 40% of households own a firearm! These firearms owners have over 500,000 million firearms including all types. The firearms-bearing market includes hunters, sport shooters, law enforcement professionals, collectors and the booming self-defense market.

With new, restrictive gun laws making it harder to buy new guns, gun owners need a professional to keep their guns in good working order. All this adds up to a tremendous opportunity for trained, competent gunsmiths. In fact, there are probably thousands of firearms within a few miles of where you live. If you maintained just a fraction of those, you'd be busier than you could ever imagine.

### Work for Yourself or For Someone Else... Full or Part Time

After you become an American Gunsmithing Institute certified Gunsmith, you will have a number of career options. Although most of our students prefer the freedom and financial rewards of working for themselves, you also have the option of working for someone else. Either way, as an American Gunsmithing Institute-certified Gunsmith, you'll be well prepared for whatever career choice you make.

### Your Own Business

If you have ever dreamed of being in business for yourself, you'll find gunsmithing is the perfect part or full time business. You'll enjoy the freedom and prestige of working for yourself.

Whether your business is part or full time, as a professional gunsmith you will make money almost immediately. If you're a federal firearms dealer (or would like to be), you can now offer your professional gunsmithing services to anyone who buys a firearm through you! With every gun you sell, you're creating a new customer.

## TUITION RATES AND OTHER FEES *(correct at time of publication)*

Course	Registration	Tuition— Includes Course Materials and Testing	CA Sales Tax (8%) (if applicable)	Shipping and Handling	*Student Tuition Recovery Fund (if applicable)	**Total Cost Non-CA Student	**Total Cost CA Student
	<i>Non-refundable</i>	<i>Refundable</i>	<i>Refundable</i>	<i>Non-refundable</i>	<i>Non-refundable</i>		
Professional Gunsmithing Level 1	\$100.00	\$4,997.00	\$399.76	\$60.00	\$0.00	\$5,157.00	\$5,556.76
Professional Gunsmithing Level 2	\$100.00	\$6,997.00	\$559.76	\$95.00	\$0.00	\$7,192.00	\$7,751.76
Master Gunsmithing	\$100.00	\$9,997.00	\$799.76	\$145.00	\$0.00	\$10,242.00	\$11,041.76
Enhanced Master Gunsmithing	\$100.00	\$14,997.00	\$1,199.76	\$450.00	\$0.00	\$15,547.00	\$16,746.76
Practical Gunsmithing	\$100.00	\$597.00	\$47.76	\$23.00	\$0.00	\$720.00	\$767.76
Locksmithing	\$100.00	\$997.00	\$79.76	\$26.00	\$0.00	\$1,123.00	\$1,202.76
Machine Shop	\$100.00	\$1,197.00	\$95.76	\$39.00	\$0.00	\$1,336.00	\$1,431.76
Welding	\$100.00	\$1,297.00	\$103.76	\$27.00	\$0.00	\$1,424.00	\$1,527.76

\*STRF – \$0 for every \$1,000 rounded to the nearest \$1,000

\*\* Estimated charges for the period of attendance and the entire course

*The American Gunsmithing Institute is a private proprietary institution approved to operate by the California Bureau for Private Postsecondary Education. Approval to operate means the Institution is compliant with the minimum standards contained in the California Private Postsecondary Education Act of 2009 (as amended) and Division 7.5 of Title 5 of the California Code. The Bureau can be reached at 2535 Capitol Oaks Drive, Suite 400, Sacramento, CA 95833, [www.bppe.ca.gov](http://www.bppe.ca.gov), toll-free telephone number (888) 370-7589 or by fax (916) 263-1897. The American Gunsmithing Institute is a non-accredited, non-degree granting private school; therefore certificates of this Institute are not recognized by the US Department of Education. All courses are distance education only. For more information see School Catalog on our website: [www.AmericanGunsmithingInstitute.net](http://www.AmericanGunsmithingInstitute.net)*

# Learn professional gun repair from master gunsmithing instructors and earn your gunsmithing certificate in as little as 3 months, by watching step-by-step video instruction in the privacy of your own home or business.

Experience the sheer joy of learning real gunsmithing from Master gunsmiths, through this premier trade school level program, fast and easily, all without ever having to quit your job or leave the comfort of your living room and for about one fifth the cost of attending a campus based school. Through the knowledge you will acquire in this course you will be able to completely understand how to repair and customize pistols, revolvers, rifles, shotguns and rimfires.

This is our promise to you; when you have finished the professional Gunsmithing course from the American Gunsmithing Institute, you will be able to pick up any firearm, even one you have never seen before, determine what type of system it uses and with that knowledge be able to analyze the problem and make the appropriate repair. We teach you how all the systems work, the mystery and confusion will be gone. You will actually understand what the problem is and why you are fixing it in a particular way. Then you will have become a real gunsmith.

## No other school, campus based or otherwise offers this level of instruction.

In fact, serious students graduating from campus based gunsmithing schools have been enrolling in our program because “they didn’t teach me that!” Why is that the case?... because only the American Gunsmithing Institute teaches you step-by-step how all the major firearm systems work and we are the only Gunsmithing school with Master Gunsmith Bob Dunlap as senior instructor. In addition, because the instruction is delivered step-by-step on video, the instruction is consistent and systematic. The entire course is completely indexed, so you can watch any section as many times as you want or need to.



## You can't fix it unless you understand how it works!

That is why our course is a complete design, function, and repair course. The way we show and describe to you how the firearms mechanisms work, totally illuminates the subject and the fog and mystery is removed. You will now know and possess the how and why of firearm design and function and then you are able to understand how to make the appropriate repair. No other Gunsmithing course provides this teaching method or experience.

## Bob Dunlap has the unique ability to make complex concepts easy to understand.

This unique teaching style greatly compresses the time it takes to become a professional gunsmith. Bob's exclusive teaching system uses one section to build on the next. For example in the pistolsmithing section, we spend 27 plus hours teaching you how all the various models and systems work. You begin by learning in comprehensive detail about “locked breech single action automatic pistols that use a link system” (like the 1911 .45 Auto).

Once you fully understand how those type of mechanisms work, we then focus on teaching you the differences between that and the cam lock system (Browning Hi-Power, Glock, and others) and so on. Thus providing new information on each model or major variation of firearm, building on a foundation and saving you time by not repeating every detail where they are the same. Therefore we are able to cover many, many, many times the number of guns and systems than any other course ever offered. In

addition we have created cutaway guns to use as teaching aids for many of the models we cover. This provides you with a unique look “inside” the firearm, to clearly understand how everything works together. This same “building block” teaching method is continued throughout the shotgun, .22 rimfire and centerfire rifles sections of the course. You will also learn many important elements of gunsmithing including; how-to properly headspace a firearm and why, firing

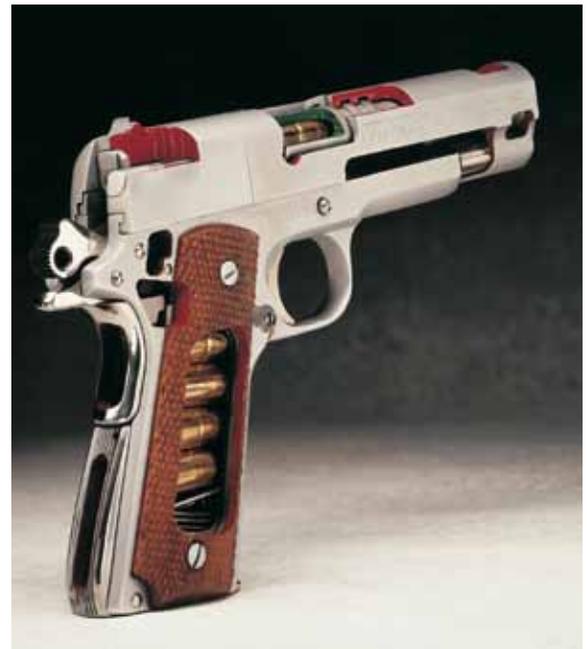
pin shape and design, sear, hammer and trigger systems, balancing and adjusting springs, accurizing, barrel replacement and alignment, frame repairs and straightening, timing, feed systems, and so much more.

**Would you like to become a competent gunsmith at a fraction of the cost of a campus-based gunsmithing program?**

HERE'S HOW: If you are like most of our students, you already have a career and family and can't afford to go to a campus-based school and spend \$15,000 – \$20,000 or more per year, plus living expenses, lost income and 2-3 years of full-time commitment. This could total \$50,000 or a lot more!! Even then, many graduates of other schools have told us that they still feel they need The American Gunsmithing Institute's design, function and repairs courses, because they weren't taught complete design, function and repair, so they enroll with us to complete their education. They also use our course as a Master Reference library on video, which frequently helps them get out of a bind. In addition, The American Gunsmithing Institute courses cover many subjects in better and clearer detail than you would receive as a student at a brick and mortar college. Plus, The American Gunsmithing Institute covers a whole lot of things that are just not taught in gunsmithing school at all—like how to be successful in the business of gunsmithing. We also teach you real world benchwork short-cuts, tricks, tips and techniques.

**All of the advantages of a campus based course, but faster and with the ability to review information anytime you want.**

We designed the American Gunsmithing Institute Professional Gunsmithing Courses on video to give you the advantages of a campus-based program with none of the disadvantages. In fact, many of our students say that our video based course is better because they can “re-play” the instructor anytime a difficult project comes in. In fact, researchers say that we retain



less than 12% of what we learn in a classroom. That's why we've designed our course to be sure every step is clearly demonstrated and rapidly available for your review when needed.

**We won't waste your time . . .**

In a classroom setting, you usually only get 20 to 30 minutes of solid instruction per hour, at best, after the teacher is finished taking roll, telling a joke, answering stupid questions, and teaching to the level of the slowest person in the class. The American Gunsmithing Institute course is solid information. No wasted time. On top of that you can't see the details and close-ups that we show you, even from the very first row in a classroom.

**Study at your own pace.**

We remove all of those learning barriers. With the American Gunsmithing Institute courses you move at your pace with the ability to review at anytime, and there is no time limit to complete the course. And because the entire course is taught on video, note taking is not required so you can focus on the instruction.

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# PROFESSIONAL GUNSMITHING COURSE — Level 1

## Everything You Need To Know About Firearms Design, Function & Repair To Start A Gunsmithing Career.

The Level 1 course includes the core 108 hours of instruction in design, function and repair so you can start maintaining and repairing firearms immediately.

The course starts you off with a 5 hour introduction to the world of Gunsmithing, learning about special gunsmithing tools and how to use them, filing and stoning techniques, proper use of hand tools, firearms parts and proper terminology and descriptions, locking systems, action types, feed mechanisms, basic



Well over 100 hours of detailed training on DVDs!

ballistics, cartridges and powders, different types and pressures, cartridge evolution, primer and bullet types, and so much more. Now you are prepared to get into the meat of the course, learning the design, function and repair of pistols and revolvers, shotguns, .22 rim-fire rifles and centerfire rifles.

It is our belief that you can't fix it unless you really understand how it works. Many so-called gunsmiths simply throw new parts at a problem until they hope it is fixed. We teach the why and the how. When you fix a gun, you'll know you really fixed it.

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*"I recently completed a mail order gunsmithing course. Their entire action bedding section can be summarized as "follow the instructions in the Brownell's Action Bedding Kit". In contrast, your video course (#SGBV Stock Bedding) took me step-by-step through the entire process with each step clearly demonstrated. My first attempt looked very professional."*

Jack Herber, San Bernardino, CA.

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108 Instruction Hours—Self-Paced

- Length: Thirty-two (32) Months or less
- No Prerequisites • Distance Education
- Professional Gunsmithing Level I Certificate awarded upon completion

Student Tuition: \$4,997\*

(\*plus s/h, registration fee of \$100 and sales tax where applicable. California students see page 2)

### Complete Testing and Certificate:

As you complete your study of the Introduction to Gunsmithing and each of the four sections: Pistolsmithing, Shotguns, .22 rimfires and Centerfire Rifles, you will take a written multi-choice examination. If you pass each with a score of 80% or higher, you will earn your certificate for that section of the course and receive a handsome framed personalized certificate.

A certificate from the American Gunsmithing Institute is more than just a badge of honor—many companies will allow our graduates access to restricted parts. With the Professional Gunsmithing Level 1 course in addition to the 108 Hours of design, function and repair instruction in the course, you will also receive these additional bonuses:

- Glass Bedding Rifle Stocks for Accuracy DVD with kit
- Buying and Collecting Used Guns Without Getting Burned DVD
- Professional Gun Cleaning: Secrets DVD
- The Official History of Smith & Wesson Firearms DVD
- Stock Refinishing DVD
- Super Tuning the Factory Rifle DVD
- Set of "Jack First" 3 Volume 2,000-page Parts Schematics Catalogs
- Gunsmithing FFL (Federal Firearms License) How-to Audio CD and application starter kit, including forms, tags and book
- One year of Gun Club of America Silver Level Membership including the GunTech monthly instructional DVD magazine
- One year of continuing education through Webcast classes
- Ongoing technical support from Professional Gunsmiths by telephone and e-mail
- and more!

# PROFESSIONAL GUNSMITHING COURSE — Level 2

## This Advanced Course Takes You To The Next Level By Adding To Your Skills

By enrolling in the Professional Gunsmithing Level 2 Course, you will accelerate your learning process and be a more competent gunsmith, able to work faster and provide more services. You will learn how to operate a lathe and a mill, rebarrel and customize rifles, refinish firearms, get advanced certificates and more.

### You get everything included in the Level 1 Course plus:

- Cowboy Action Armorer Course with testing, certificate and patch
- Custom Barrel Bolt Action Rifles DVD
- Understanding, Selecting & Buying Rifle and Pistol Scopes DVD
- Building the Custom Mauser Rifle DVD
- Professional Gunsmithing Metal Finishing DVD
- Professional Trigger Jobs and Systems DVD
- Case Hardening and Heat Treating DVD
- Making Coil & Flat Springs DVD
- Certificate for one week of small group hands-on in-classroom training with Master Gunsmiths Bob Dunlap or Ken Brooks (good for 3 years)

### Learn sitting by the side of the master... a Day at the Bench with Bob Dunlap

What if you could spend a day at the bench looking over a master gunsmith's shoulder as he explains, not only what he is doing, but also what he is thinking as he works through a series of real repairs.

After learning complete design, function and repair as part of the Level 2 Course, you will have the rare opportunity to get inside the mind of Bob Dunlap and understand exactly how he thinks through a gunsmithing problem. This training will take your professionalism to the next level. You will spend the equivalent of an entire day looking over Bob's shoulder as he works on everything from a Luger Pistol to an Italian copy of a Winchester '73.

He talks to you about his thought process, how to diagnose problems and ways to make the fastest repairs. Bob also shares with you his philosophy on setting up a shop and how to move efficiently. You, too, will have the ability to rapidly analyze problems and apply the most direct solutions. This is 4-1/2 hours of additional instruction packed with exclusive insider information.

**137 Instruction Hours—Self-Paced**

- Length: Thirty-four (34) Months or less • No Prerequisites
- Distance Education • Professional Gunsmithing Level II Certificate awarded upon completion

**Student Tuition: \$6,997\***

(\*plus s/h, registration fee of \$100 and sales tax where applicable. California students see page 2)



Our Level 2 Course contains many more hours of instruction, including the Machine Shop and Cowboy Action Armorer courses.

### You also get the complete machine shop course with materials and shop manuals

To expand your Gunsmithing knowledge and ability to make repairs, this course also teaches you the next set of skills you will want to learn—general machine shop knowledge and how to operate a mill and lathe. You'll learn how to completely set up and operate the lathe, vertical mill and other shop equipment. Containing over 30 hours of instruction on DVD, Master Riflesmith and Machinist Darrell Holland will instruct you in everything you need to know to be able to walk up to any one of these machines and start making parts. This is an extremely valuable addition to any gunsmith's set of skills.

In the Lathe section, you will learn how to select a lathe, complete set up, tool geometry and grinding tool bits, how to turn diameters and cut threads, boring, reaming, feed rates, using dial indicators and precision measuring devices, material selection and more.

In the Vertical Milling section, you will understand how to bore, fly cut and set up work along with special fixtures. You will know how to calculate cutting speeds and feed rates for various materials and how to use a digital readout to insure precision location of holes and edges.

The General Shop techniques section covers how to efficiently set up your shop and how to use all the support and measuring equipment. Also explained and demonstrated is how to use the popular combination lathe/mill machines.

The complete Machine Shop Course comes with test materials and projects, along with certificate. Includes books, prints and other materials.

# MASTER GUNSMITHING COURSE

## This Is The Course The Majority Of Our Students Choose To Enroll In.

It will provide you with the knowledge and additional advanced skills and techniques, including welding, that will enable you to become a master of your craft.

With the Master Level Course, you will receive certificates as a 1911 Pistolsmith, Glocksmith and AR-15/M4 Riflesmith, plus training on how to be successful in the gunsmithing business.

### You get everything included in the level 1 & 2 courses plus:

- Complete Welding Course and materials (22 hours)
- 1911 Pistolsmith Course with testing, certificate and patch
- Glocksmith Course with testing, certificate and patch
- AR-15/M4 Riflesmith Course with testing, certificate and patch
- How to Rebarrel, "Blueprint," and Tune Military Mauser Rifle Actions DVD
- How to Build a Semi-Auto G-3, HK-91 & CETME Rifle DVD
- and more!

### The Business Success System Information Package Includes:

- 6 CDs. Interviews with American Gunsmithing Institute instructors and "How-to" information on shop set-up, flow, problem solving, traps to avoid and more
- Exclusive Gunsmithing First Ever Flat-rate Job Book (so you will immediately be the expert and know with confidence how much you should charge for your work)
- "Tax Secrets That 'THEY' Don't Want You To Know About" Audio CD. You would pay more than \$1,000 to get the advice revealed on this CD from a CPA or tax attorney, IF they would even tell you!
- Marketing Manual teaches you different ways to market your business including information on how to use direct mail to generate business, news releases, yellow page ads and more to bring you customers
- The Secret Life of Bob Dunlap – Inside Bob's Head (4 DVD set!): Learn about how Bob became a Master Gunsmithing Instructor, understand how his unique thought process works and how you can apply the same methods to making successful repairs
- 2 certificates for a 1/2-hour telephone consultation with Master Gunsmith Bob Dunlap (good for 2 years)
- Business Success Tool Kit

**Series:** Contained in this 12 Audio CD "Mini-MBA" Series are the core secrets to operating ANY Successful And Profitable Business. Hosted by the American Gunsmithing Institute's President and businessman Gene Kelly, along with Professional Business Coach April Palmer

- 2 weeks of hands-on in-classroom advance training certificates with American Gunsmithing Institute's instructors (good for 3 years)



The Master Gunsmithing Course includes all these DVDs and bonus materials including our exclusive Welding Course.

- 159 Instruction Hours—Self-Paced
- Length: Thirty-eight (38) Months or less
- No Prerequisites • Distance Education
- Master Gunsmithing Certificate awarded upon completion

**Student Tuition: \$9,997\***

(\*plus s/h, registration fee of \$100 and sales tax where applicable. California students see page 2)

# ENHANCED MASTER GUNSMITHING COURSE

## This “Turnkey” Gunsmithing Business Will Add Even More Specialized Skills, Including Firearms Appraisal And A Complete Set Of Tools.

If you want to get started in gunsmithing immediately and possess all the information available plus a complete turn-key set of tools, this is the course for you.

A number of our students wanted everything they needed for doing complete gunsmithing repairs and basic customizing in a small home-size shop, without them having to spend a lot of money or shop around in dozens of different stores.

So, we interviewed our top Master Gunsmithing Instructors, and they recommended the tools that we include in this package. If you really want to get started fast without breaking the bank, this course will really help you accomplish that goal.

**In addition to everything included in the Level 1, Level 2 and Master Gunsmithing Courses, the Enhanced Master Gunsmithing Course includes:**

- **Expansion Modules:** (additional 100 hours of fully-indexed firearms training and reference DVDs)  
**Pistols**—over 65 additional handguns are covered in depth  
**Rimfire Rifles**—dozens of additional models are covered  
**Shotguns**—over 30 additional shotgun models and systems
- **Firearms Appraiser Course**—make money appraising guns



The Enhanced Master Gunsmithing Course is our most complete package, including the entire Armorer Courses library and the Firearms Appraiser Course.

- **Design, Function and Repair Live Courses**—a series of classes that were recorded
- **Complete DVD library of 58 different Armorer Courses**
- **Personalized Gunsmithing website**—help jump start your business
- **3 different weeks of hands-on in-classroom training certificates** with American Gunsmithing Institute’s instructors (good for 3 years)

### Plus, you get our complete tool package.

With the Enhanced Master Gunsmithing Course, you also get our complete tool package including a benchtop mini-lathe, belt and disc sander, benchtop grinder, drill press, Foredom® Hand Grinder, and all the hand-tools you need to set up your shop.



Note: The tools in this package are representative but models, manufacturers or items are subject to availability and change without notice.

- **159 Instruction Hours—Self-Paced**
- **Length: Thirty-eight (38) Months or less**
- **No Prerequisites • Distance Education**
- **Master Gunsmithing Certificate awarded upon completion**

**Student Tuition: \$9,997\***

(\*plus s/h, registration fee of \$100 and sales tax where applicable. California students see page 2)

# MACHINING COURSE

## Possess the knowledge of a MASTER MACHINIST!

The American Gunsmithing Institute Machine Shop Course is the most comprehensive and easy to understand instruction ever offered on the proper set up and use of the lathe, mill, and general machine shop equipment.



Your instructor Darrell Holland

Now YOU too can acquire the knowledge to become a Machinist in as little as one month—guaranteed!

Is it really possible? Can you learn how to operate a lathe by just watching our courses? Yes! In fact, it will only take a few hours before you can start turning out your first parts. Instructor Darrell Holland breaks down the information into its simplest components. Each technique he teaches

prepares you for the next

skill level. Just hours after watching this course you'll be turning out high quality work. Many of our students have no previous experience.

### Become an Expert on the Lathe

You have a front row seat in the classroom of the future! Our writers and producers have put together a professional training course using personalized DVD video instruction.

We teach you everything you need to know about the lathe: what to look for if you are buying one, the function of each part of the machine, how to set it up, grinding your own tool bits, complete facing, turning and boring operations including turning precision diameters and tapers, boring holes and turning threads (internal and external), knurling, finishing, and more.

Darrell doesn't just show you how to operate the machine, he teaches you the core knowledge required so you really understand what you are doing. How to select the proper materials for the application and calculate turning speeds and feed rates are covered as well as measuring



tools and measuring techniques.

Darrell shows you how to become "one" with the machine. You won't just be a button pusher. He shows you how to "read" the machine by listening to what it is telling you so you can make fine adjustments, turning out top quality parts. It is this kind of knowledge you won't find in any other course on machining, which is why we are able to offer our money back guarantee even after you have viewed the course!

### Master the Milling Machine

The Milling Course is just as thorough and complete as the lathe course. Once again, Darrell comes through by giving you unique insight into the capabilities and features of the vertical mill. He tells you exactly what to look for when purchasing a new or used mill as well as trammng the head, fixturing, X,Y & Z axis movements, locating centers, locating edges, types of cutters, cutting speeds and fluids, chip load, material selection, fly-cutting, climb-cutting, precision hole-drilling, angle cuts, and boring.

### Climb into Darrell's Head

Just knowing the techniques isn't enough, we give



Milling machines demystified

you insight into the way a Master Machinist like Darrell thinks. In the section on "Making a Part: Start to Finish," Darrell takes you through the thought process of how you approach making a part. He shows you how to think through the entire process in your mind before you start the machine and the differences between machining a single part and setting up for a production run. It's the sharing of this kind of knowledge and

information that sets us apart from any other course or institute.

Darrell covers how to design and set up your shop, buy materials and perform heat treating as well as how to use the belt sander, drill press, blast cabinet, cut-off saw, pedestal grinder, surface grinder, and more. The detailed tricks and techniques he gives you will save you loads of time and make you more money (like how to remove broken screws and sharpen drill bits)!

Darrell then rounds out the course by demonstrating the abilities and limitations of the less expensive Mill/Drill combination machines that are now available.

(continued next page)

# MACHINING COURSE (cont.)

He gives you his own personal recommendations of when and how they can be used effectively and if that wasn't enough ...

**BONUS VIDEOS:** Two more instructors will show you how to set up and operate an automotive-cylinder boring machine and an automotive brake lathe. Armed with this exclusive information you could start doing contract work for a local garage!

## Pass the Ultimate Test

This exclusive Machine Shop Course consists of over 30 hours of detailed video instruction. It is TRULY a comprehensive course that is equal to far more than a year of college-level machine shop classes. So you can prove you have learned the material completely, we have two levels of optional testing with certificates.

The first level test is Machine Shop Theory. We will provide you with a multiple choice written test that you complete and send back to us. If you pass we will provide you with a personalized Machine Shop Theory certificate in your name. The next level of testing is a chance for you to demonstrate your new machining skills. When we send you the course it includes the blueprints and materials needed for you to machine a few pre-selected parts. This is your own personal Fire Walk. It's a true test of your skills. If you pass, you will be issued a certificate of completion showing you have met our high standards, which will read "Machinist in Practical Applications" with your name on it.

## Bonus Materials!

In addition to the 30 plus hours of video in the course itself, you will receive the 2,543-page Machinery's Handbook (which is the machinist's "bible"), the matching Machinery's Handbook Guide, an American Gunsmithing Institute machinist apron, a handy pocket conversion and drill chart, practice tool bit, thread alignment "fish-tail" gauge, written test, blueprints and test materials.



All of these reference materials, specialized tools, and course materials are included in the American Gunsmithing Institute Machining Course.

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*"The Lathe Course was superb, and since the Milling Course is even better, I am at a loss for a term of recognition higher than superb. I learned more tricks and insights from these courses than 35 years of hands-on has taught me. Just his tips for tramming in the head quickly and easily were worth the cost of the course to me. Darrell is not only a master machinist and gunsmith, but a natural instructor as well. Thanks for another great course!"*

Steve Bird Sr., Failure Analysis Engineer, San Jose, CA

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### 29 Instruction Hours—Self-Paced

- Length: Twelve (12) Months or less
- No Prerequisites • Distance Education
- Machine Shop Theory Certificate awarded upon completion

**Student Tuition: \$1,397\***

(\*plus s/h, registration fee of \$100 and sales tax where applicable. California students see page 2)

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*"I have watched the entire course 4 times. As usual with the American Gunsmithing Institute, the quality of the instruction is first rate. Darrell Holland is a machinist who not only knows his subject, but is also able to present the material in an interesting and captivating way for the student machinist. I found the additional videos dealing with automotive machining to be an unexpected, but appreciated bonus."*

Glendall H. Epperson, Epperson Gunsmithing

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# WELDING COURSE

## The FASTEST way to learn welding

**Having the ability to weld can make the difference between being a successful gunsmith or not.**

Many times when you are gunsmithing you will encounter a firearm that has a worn or broken part which is expensive, hard to get, or even no longer available. Knowing how to repair the existing part or being able to create a new one by welding is often your best solution.

This course covers everything from history to set-up, to safety, to how to make the perfect weld. And enables you to understand for the first time how to control the molten puddle, by showing you close-ups from just inches away.

**You will feel like you are right in the middle of the Molten Puddle!**

If you have ever tried to weld and have been frustrated by the results, this course is for you!! This is a new professional level course and is of the same high content value and quality you have come to expect from The American Gunsmithing Institute. We cover the entire spectrum of welding, set-up and equipment. We also teach you safety, metal types and welding terminology that will make you act and sound like a pro. We show how to make the perfect weld and tips to help you to practice and improve.

There is no other course that goes into this amount of depth and takes you right up into the molten metal so that you can SEE how a weld is made. This course will take an absolute novice and have them making professional looking welds in a matter of minutes. Even experienced welders will learn new tricks of the trade.

Our complete Welding Course is the most comprehensive, video-based, welding course ever produced. It contains 22+ hours of detailed information that covers every aspect of welding from equipment and techniques, to symbols procedures. Each part is presented in an easy-to-understand format, step-by-step, using close-ups that make a 1/2 inch molten puddle fill your television screen.

Learning to weld has never been this easy. As you progress through the course, your instructor keeps you well grounded in the practical world with knowledge and insights gained through 40 years of welding training and experience.

**History:** The course begins with the history of welding (which actually started at the end of the Stone Age). Your instructor, Bob Rizzetto takes you step-by-step through this fascinating history in order to show you



the basics of what welding actually is and to chronicle the developments and breakthroughs that brought us the time-tested methods and amazing equipment that make modern welding truly state-of-the-art.

**Safety:** Welding offers too many ways to injure yourself for us to overlook safety. We cover all the safety gear and procedures in our usual detail so you can use the right safety gear and know the correct procedures to protect yourself and others in every situation.

But that's not all. Mr. Rizzetto also teaches you a special technique that keeps you in a safe state-of-mind in order prevent accidents from happening when you are the most vulnerable (under the hood). With safety under our belt, we move on to the basics of gas-welding.

**Gas Welding:** We use gas welding as the foundation for the course because with gas welding it's easier to see and control the weld puddle and the gaswelding process builds the hand/eye coordination necessary to become proficient at ANY type of welding.

We begin with tank set-up and how to light the torch. We pay a visit to the local welding supply to learn about the tanks, gases and proper operating procedures. Next, we show you how to light the torch, the three types of flames and their uses.

Then, Mr. Rizzetto shows you the puddle, the heart of ALL welding (no matter what type of equipment is used). He teaches you everything you need to know in order to make and control the weld puddle. We don't just show you the correct way to weld, we also demonstrate what happens when the puddle is too hot, too cold, moves too fast or too slow and much more.

As we practice, we show you: how to tack your work

(continued next page)

# WELDING COURSE (cont.)

pieces, the basic types of weld joints, the four welding positions (flat, horizontal, vertical and overhead), rods, tips and how to make the proper rod/tip selection based on the thickness of the material, type of metal, etc. We also show the proper way to complete a weld using both single and multiple passes. By the time we wrap up gas-welding we have covered all the basics you need in order to become proficient at ALL types of welding.

**Gas Cutting:** In this section we learn how to use the gas rig to cut metal. Thick, thin, round, square, you name it, Bob shows you how to cut it properly. We cover all the details of equipment selection and set up as well as the rules you must follow in order to achieve a proper cut. We demonstrate add-on equipment that lets you make cleaner, faster cuts, circular cuts and more and, we show you how to use special tips to “gouge” and “scarf” away material, remove rivets and brackets and even remove a nut from a bolt without damaging the bolt.

**Plasma Cutting:** Once you’ve mastered cutting with gas, we show you the setup and operation of a plasma cutter. It is one amazing tool not just because it is fast and clean, but because you can also cut non-ferrous metals (like aluminum, stainless, copper, brass, etc)! Bob covers all the particulars for making good cuts with a plasma machine.

**MIG Welding:** Next we cover MIG (wire) welding. In order to lay a good foundation for welding with electricity, Bob goes over the basics of: electricity, the electric circuit and safety. Next we cover the different types of MIG equipment.

We take you step-by-step through all the details of equipment set-up and operation. From assembling the

machine and loading wire, to cleaning and replacing nozzles, tips and more, we cover it all. Then (just as with gas-welding), we begin teaching you how to control the equipment settings and the puddle in order to be able to tack parts and weld thin or thick materials using single and multiple passes. As he demonstrates these techniques,

Mr. Rizzetto is also showing you (once again) the different types of weld joints and positions and he continues to give you tips and pointers that will help you build your skills faster and to the highest level possible. He takes you through the MIG-welding process using both solid and fluxcore wire.

**Arc Welding:** Since you’ve learned the basics with gas welding and moved on to hone those skills with MIG welding, you are ready to tackle the challenges offered by traditional “stick” welding. Again, we show all types of arc-welding equipment as well as how to properly set-up and operate it. Nothing is left out. We teach you all about rods, rod storage and flux coatings showing you how to choose the correct rod for each situation.

We cover how to: “size” your cables to your welder, how to make your setup so you avoid common mistakes that can ruin your equipment and your work-piece, how to determine the correct settings for your equipment and we take you close-up to show you how the weld puddle looks and acts with flux covering it.

We also cover the proper techniques for removing slag and grinding welds to prepare them for inspection or multiple passes. This is the time when what you’ve learned about porosity really comes into play as we teach you how to find and properly repair, porous welds. As we teach all of this we continue to demonstrate the different types of weld joints and positions.

We also use arc-welding to teach the proper techniques and fixturing necessary for the specialized job of pipe welding. In each section of the course, Mr. Rizzetto gives tips, tricks and actual accounts from his personal experience that apply to the specific skills, techniques and processes that he is teaching.

**TIG Welding:** Once you’ve learned how to arc-weld, you are ready for TIG welding. TIG welding not only allows you to weld non-ferrous metals such as aluminum and stainless steel, it also allows you to make extremely fine welds on very thin metals or repair very small parts by re-joining them.

Part of the finesse of TIG welding is learning how to use the features and controls of the TIG machine to enhance the quality and speed of your welds. Bob unravels the confusion and mystery of the many settings found on advanced TIG machines by explaining and demonstrating each feature. He leaves no stone



The Welding Course comes complete with testing and certificate.

(continued next page)

# The first ever complete course with Step-by-Step instruction in all aspects of welding, including: Gas (Oxy-acetylene), Stick (flux coated Arc Welding), MIG (wire feed) and TIG (Tungsten Inert Gas)

untuned as he shows you how to refine your skills and adapt them, whether you are welding thin stainless steel or cast aluminum.

Aluminum and stainless are covered in their own sections where we teach you the systems used to “grade” the metals according to hardness, tensile strength, etc. so that you are able to make the right choice when choosing metals for a project or correctly identify what type of metal a particular workpiece is made from before you weld on it.

In addition, Bob gives you special tips just for welding aluminum since welding on cast-aluminum parts has different parameters than extruded parts.

**Welding Small Parts:** If that isn’t enough, we have a special section on TIG welding that focuses solely on welding small parts for gunsmithing. Although the parts and situations we demonstrate are gunsmithing-related, this section is invaluable to anyone who needs to construct, modify or repair tiny parts of any kind.

**Welding Symbols:** In this section Bob covers the AWS Welding Symbol System, what each part represents and how to read it. He also teaches you the graphic symbols used in prints and drawings to represent the types of joints, welds and processes. Understanding these symbols and the AWS Symbol System and all its parts is an important requirement in the process of becoming a AWS certified welder.

With his usual simplicity and sense of humor, Bob makes what seems complicated, easy to follow. Since it’s on DVD, if you forget what a particular symbol means you can go back and review whenever necessary. Once you’ve learned the symbols, we then show a set of prints for an actual welding job and see how the symbols are put into practical use.

Then we go outside the contractor’s office and look at the actual pieces for the same project we just saw on the prints. This really ties together the correlation between the drawings and the actual welding project.

**Shop Tour:** Next, Mr. Rizzetto takes us on a tour of an actual welding “job-shop,” where everything from fabrication to repairs is done on a daily basis. He shows us the layout of equipment and work areas as well as the specific pieces of equipment and how each is used in this ever-changing environment. After this tour you have come full-circle from learning the basic skills and procedures, to seeing them put to use in the real world.



Your instructor Robert Rizzetto

**Welding Projects:** In this section Bob lets you put your skills into use building actual projects that are invaluable to you as you begin using your newfound welding skills. He uses the process of building the project to teach you how to do simple, appropriate, drawings for any project you need to build (for yourself or a customer).

As always, Bob’s methods and techniques are grounded in the real world where things need to be practical in order to be successful. As he takes you through each project step-by-step, everything you have learned in the course is put into practice so you can make the final connection between the skills and their applications.

In the end, you come away with new skills that will last a lifetime and a useful welding bench with accessories! Not to mention, the countless, invaluable tips and insights that Mr. Rizzetto shares from a lifetime of professional welding experience.

- 22 Instruction Hours—Self-Paced
- Length: Twelve (12) Months or less
- No Prerequisites • Distance Education
- Welding Theory Certificate awarded upon completion

**Student Tuition: \$1,297\***

(\*plus s/h, registration fee of \$100 and sales tax where applicable. California students see page 2)

# PRACTICAL GUNSMITHING COURSE

## Take your Gunsmithing hobby to the NEXT level with The American Gunsmithing Institute's Practical Gunsmithing Course

Discover the secrets of repairing, modifying and customizing your firearms quickly and easily!

This course teaches you the insider secrets of master gunsmiths and quickly teaches you the shortcuts, tips and tricks used by the pros! If you are not ready yet to invest in the complete American Gunsmithing Institute Professional Gunsmithing Course but want to continue to build your gunsmithing skills and be able to do dozens of different repairs, then the Practical Gunsmithing Course is the perfect "next step" for you!

9 hours of instruction from Master Gunsmith Robert H. Dunlap which includes:

- How to set up your home workshop... everything from the depth and height of your workbench to the "must have" hand and power tools that will save you time and money getting started.
- How to custom hand grind your own Gunsmithing screw-drivers



Stock Repairs



Set Up Your Shop



Grip Repairs



Scope Installation



Polishing Chambers

- 2 simple tricks for removing broken screws from metal or wood
- Cold-bluing methods
- How to properly mount a scope...and the "Dollar Bill Test" to use once you've got the scope on
- Proper barrel cleaning to avoid damage
- How to re-tip a broken firing pin
- What NEVER to do when polishing a chamber
- A simple method to quickly repair loose handgun grips
- How to replace or install a recoil pad on your rifle or shotgun
- How to repair a broken stock ... using the tips in this lesson just once could save you hundreds of dollars and pay for the entire course!
- Various types of firearm locking systems: rifles, pistols and shotguns
- Proper nomenclature and parts identification of single action revolver, double action revolver, shotgun and long gun; learn to talk "the talk" of a real gunsmith
- How to identify a striker or hammer fired gun and why the difference is important
- How to determine the proper "length of pull" for your firearms
- The differences between American and European style stocks
- How to tell if your stock is "cast-off, cast-on or neutral" ... and how this affects recoil

- Why your sight picture may change depending on your stock's pitch

- Barrel types and styles, and how they're manufactured
- Introduction to ballistics and how cartridges are designed
- A complete discussion of sights and scopes
- And HOURS more of information we don't have room for here!!!

### Plus ... you receive The Complete Hobby Gunsmithing Reference Book!

This book is crammed full with reference information including a DVD index, trouble-shooting tips, shop techniques, handy gunsmith tool blueprints as well as heat treating, ammunition and decimal charts. A must have for any gunsmith.

This book includes:

- Master index for the DVDs
- A 16-page "Trouble Shooting Flow Chart". Identify the malfunction then simply follow across the chart to learn the probable cause and appropriate corrective action. This is PURE GOLD!!!
- Exact blueprints for over 13 different custom gunsmithing tools that YOU can make.
- Metric and English ammunition designations and sizes chart
- Full page of decimal equivalents, a handy reference for drill and tap sizes.
- Heat-Treating Chart for hardening metals.
- PLUS More!!!

When you complete and pass the enclosed Practical Gunsmithing Test, you will receive a certificate of completion to display in your home or office.



Fitting Magazines



Install Bead Sights



Chamber Casting



Retipping a Firing Pin

- 13 Instruction Hours—Self-Paced
- Length: Twelve (12) Months or less
- No Prerequisites • Distance Education
- Practical Gunsmithing Certificate awarded upon completion

Student Tuition: \$597\*

(\*plus s/h, registration fee of \$100 and sales tax where applicable. California students see page 2)

## Step Into The Fascinating World Of Locksmithing

This Locksmithing Course will teach you the A to Z of locksmithing and prepare you to enter a career as a professional locksmith. In our continuing effort to preserve the industrial arts, we have created this course. American Gunsmithing Institute enables you to clearly see and understand all the details unlike ever before. This complete Locksmithing Course consists of 19 hours of detailed, easy-to-follow instruction. We cover all types of lock mechanisms and show you how to make keys and pick locks.

### Start With The Basics

We start with the history of locks, showing locks as much as 400 years old, and then we move into the different types of keys. We tell you everything you need to know about keys, from key blanks and catalogs, to how to make keys. We teach you how to hand-file and machine-cut: flat keys, bit keys and cylinder keys. We demonstrate three different methods of code cutting cylinder keys for padlocks, door locks and automotive applications. We use detailed close-ups to teach how to properly compare keys and use the catalogs to find the correct blanks.

Next we move on to lock mechanisms. Each lock mechanism is explained in detail using diagrams, cutaways and super close-ups to show even the smallest details. Here's what you'll learn about each type of lock.

- **Warded Locks.** We go over all the different types of warded locks including padlocks and old house locks. We not only teach how the mechanisms work, we show how to make a key from impressing the lock AND we show you how to use the proper tools to pick open ANY warded lock! FAST!
- **Lever Locks.** Next we cover Lever locks, everything from the simplest cabinet lock, to sophisticated safe deposit locks. Lever locks are much harder to impression and pick, but our instructor gives you all the tips and tricks learned from over 40 years of locksmithing!
- **Wafer/Cam Locks.** Want one key to open ALL your tool boxes? No problem, we'll show you how to do it!! We cover wafer style locks and cam locks in great detail, including "Chicago style" wafer locks and automotive wafer locks.
- **Antique Locks.** In this special section we take an in-depth look at antique locks, covering all types of padlocks, handcuffs, door locks and banks. We discuss



Instructor Bill Woolman has been a professional locksmith for many years and guides you through the course in great detail.



the lock mechanisms, show disassembly and repair tips, how to find and make keys and how to judge condition and authenticity. We show you how to purchase antique and collectible locks without getting ripped off.

- **Pin Tumbler Locks.** Using a special cutaway lock mechanism, we show you the basic design and operation of pin tumbler locks, the main type of lock used in homes, commercial and automotive applications.

Extreme close-ups, diagrams and cutaway locks take all the mystery out of wafer lock mechanisms. We even show you how to re-key, so one key can open many locks, and also how to pick and make keys for them.

### Expert Instruction For Advanced Locksmithing

This course covers pin tumbler, high security and electronic locks, everything from design and repair, to installing and picking.

We start with a basic pin tumbler cutaway to review design and operation. Then we cover residential and commercial: key-in-knob, deadbolt and combination lock systems. We thoroughly cover design, assembly, disassembly, installation, re-keying, master keying, picking and impressing.

We finish this comprehensive course with high security lock systems including key locks, combination locks and software-controlled, electronic lock mechanisms.

- **19 Instruction Hours—Self-Paced**
- **Length: Twelve (12) Months or less**
- **No Prerequisites • Distance Education**
- **Locksmithing Theory Certificate awarded upon completion**

**Student Tuition: \$997\***

(\*plus s/h, registration fee of \$100 and sales tax where applicable. California students see page 2)

**The American Gunsmithing Institute  
351 Second Street, Napa CA 94558  
1-800-797-0867**

**Call 1-800-797-0867 to speak with an enrollment advisor Today!  
Learn how YOU can become a professional gunsmith by enrolling in an  
American Gunsmithing Institute Professional Gunsmithing Course.**

**See School Catalog for complete details at  
[www.AmericanGunsmithingInstitute.net](http://www.AmericanGunsmithingInstitute.net)**

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