

Contact Us:

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Program Overview

These certificates will introduce prospective gunsmiths to the hand tools, blueprint reading skills, schematic understanding, basic machine tool operations and the nomenclature used in Gunsmithing. Emphasis is placed on safety in the shop environment and the completion of Gunsmithing related projects from blueprints using hand and machine tools. During the hands-on shop class, students will work on a final project that will be completed in the second semester of the certificate program.

After completing both certificates, students should have gained the knowledge and confidence to set up a Gunsmithing shop or become employed by a company that requires this type of skill.

Students interested in this program will be required to undergo a criminal background check before enrolling.

PROGRAM REQUIREMENTS

A.A.S. Major in General Technology, Gunsmithing*

This A.A.S. degree in General Technology with a concentration in Gunsmithing provides additional training for students desiring to either own their own business or gain employment with a major firearm manufacturer. Students desiring to start their own business can receive additional education and training by enrolling in the Entrepreneur program. While students desiring to work for a major manufacturer can enroll in the Machine Tool or Welding programs. In any of the degreed programs, students receive an additional 12 hours of focused material along with the 5 general education courses and the complete Gunsmithing curriculum. In the Introduction to Gunsmithing section students receive training in basic hand tools, blueprint reading, precision instrument usage/reading, stock refinishing, metal treatment, cycle of operations of the 8 major action types, welding, lathe and mill theory practical

application and the building of a bolt action firearm. In the Advanced Gunsmithing section students carve, inlet, shape and finish a wooden and synthetic stock for the firearm they built in the first section along with checkering. Additionally, students will work in a gunsmith shop environment where they will diagnose, repair and complete cost analysis for all the firearms they are assigned. Additional courses include: Ballistics, Sights, Triggers, Military Conversions, Safety and Business.

*CRIMINAL RECORD CHECKS FOR GUNSMITHING STUDENTS

Criminal Record Check: Students in specific Gunsmithing programs are required to have a criminal background check. These are conducted by an outside agency at the student's expense. Pending criminal charges or conviction may make the student ineligible for enrollment, participation in courses or taking the examinations.

GENERAL EDUCATION	CREDIT HOURS
ENG 101 English Composition I.....	3.0
or ENG 165 Professional Communications	
MAT 170 Algebra, Geometry and Trigonometry I.....	3.0
or MAT 171 Algebra, Geometry and Trigonometry II	
Social/Behavioral Science Elective.....	3.0
Lab Science or Mathematics.....	3.0
Humanities/Fine Arts.....	3.0

SUBTOTAL: 15.0

REQUIRED CORE SUBJECT AREAS — PRIMARY SPECIALTY

COURSES	CREDIT HOURS
GSM 101 Gunsmithing I.....	4.0
GSM 102 Gunsmithing II	4.0
GSM 105 Gunsmithing Welding.....	2.0
GSM 106 Gunsmith Safety	1.0
GSM 107 Gunsmith Machine Tool	4.0
GSM 120 Basic Stockmaking.....	3.0
GSM 122 General Repair of Shotguns.....	3.0
GSM 222 Handgun Technology.....	3.0

SUBTOTAL: 24.0

SECONDARY SPECIALTY

(Choose 12 credit hours from Options A, B or C)

OPTION A - MACHINE TOOL TECHNOLOGY

MTT 120	Machine Tool Print Reading.....	3.0
MTT 121	Machine Tool Theory I.....	3.0
MTT 122	Machine Tool Practice I.....	4.0
MTT 123	Machine Tool Theory II.....	3.0
MTT 124	Machine Tool Practice II.....	4.0
MTT 126	Machine Tool Practice III.....	4.0
MTT 130	Fundamentals of Geometric Dimensions and Tolerancing.....	2.0
MTT 141	Metals and Heat Treatment.....	3.0
MTT 143	Precision Measurement.....	2.0
MTT 161	Machine Tool Maintenance Theory.....	2.0
MTT 222	Tool and Diemaking Practice I.....	4.0
MTT 224	Tool and Diemaking Practice II.....	4.0
MTT 250	Principles of CNC.....	3.0
MTT 251	CNC Operations.....	3.0
MTT 253	CNC Programming and Operation.....	3.0

OPTION B - WELDING

WLD 103	Print Reading I.....	1.0
WLD 105	Print Reading II.....	1.0
WLD 106	Gas and Arc Welding.....	4.0
WLD 113	Arc Welding II.....	4.0
WLD 115	Arc Welding III.....	4.0
WLD 117	Specialized Arc Welding.....	4.0
WLD 132	Inert Gas Weld Ferrous.....	4.0
WLD 136	Advanced Inert Gas Welding.....	2.0
WLD 154	Pipefitting and Welding.....	4.0
WLD 208	Advanced Pipe Welding.....	3.0

OPTION C - BUSINESS/ENTREPRENEURSHIP

ACC 101	Accounting Principles I.....	3.0
BUS 121	Business Law.....	3.0
CPT 101	Introduction to Computers.....	3.0
MGT 120	Small Business Management.....	3.0
MKT 101	Marketing.....	3.0
MKT 135	Customer Service Techniques.....	3.0

OTHER COURSES REQUIRED FOR GRADUATION

COURSES*	CREDIT HOURS
Approved Elective.....	3.0
Approved Elective.....	3.0
Approved Elective.....	3.0
Approved Elective.....	3.0

*Students may use credits in this section to develop a third technical specialty or to enhance the primary and secondary specialties.

SUBTOTAL: 12.0

TOTAL CREDIT HOURS: 63.0

Introduction to Gunsmithing Certificate

This certificate will introduce the novice gunsmith to the hand tools, blueprint reading skills, schematic understanding, basic machine tool operations and the nomenclature used in Gunsmithing. Emphasis is placed on safety in the shop environment and the completion of Gunsmithing related projects from blueprints using hand and machine tools. Upon completion, students should be able to read and work from blueprints and schematics using hand and basic machine tool setups. During the hands-on shop class, the student will also be working on a final project that will be completed in the second semester of the certificate program. Students interested in this program will be required to undergo a criminal background check before enrolling.

*CRIMINAL RECORD CHECKS FOR GUNSMITHING STUDENTS

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REQUIRED COURSE INFORMATION

COURSES	CREDIT HOURS
GSM 101 Gunsmithing I.....	4.0
GSM 102 Gunsmithing II.....	4.0
GSM 104 Advanced Metal Finishing.....	4.0
GSM 105 Gunsmithing Welding.....	2.0
GSM 106 Gunsmith Safety.....	1.0
GSM 107 Gunsmith Machine Tool.....	4.0
GSM 121 Barrel Fitting/Alterations.....	3.0
GSM 230 Business for Gunsmiths.....	3.0

SUBTOTAL: 25.0

TOTAL CREDIT HOURS: 25.0

Advanced Gunsmithing Certificate*

This certificate is designed for students who have completed the Introduction to Gunsmithing certificate. Advanced metal finishing, custom barrel fitting, modern stock refurbishing and manufacture, rifle and shotgun trigger and firing mechanisms, design and function of handguns will be the emphasis of this certificate. Safety in the shop environment and the completion of Gunsmithing projects using schematics and specialized hand and machine tools will be required. Students should be capable of working on various firearms and understand the procedures required before attempting the specialized work involved.

During the hands-on shop class, the student will also be working on a final project that will be completed in the second semester of the certificate program. Upon completion of the certificate, the student should have gained the knowledge and confidence to set up a Gunsmithing shop or become employed by a company that requires this type of skill.

REQUIRED COURSE INFORMATION

COURSES	CREDIT HOURS
GSM 103 Gunsmithing III.....	4.0
GSM 120 Basic Stockmaking.....	3.0
GSM 122 General Repair of Shotguns.....	3.0
GSM 220 Rifle Stockmaking.....	4.0
GSM 221 Advanced Repair Technology.....	3.0
GSM 222 Handgun Technology.....	3.0
GSM 223 Gunsmithing Techniques.....	3.0
MTT 141 Metals and Heat Treatment	3.0

SUBTOTAL: 26.0

TOTAL CREDIT HOURS: 26.0

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>>> Visit www.ptc.edu/gunsmithing to learn more.