

Firearms Technologies Certificate

2015-2016 Application Packet

Special Provision Firearms Technologies Courses

Students enrolled in an approved college Firearms Technologies course may, during the time of the course, carry a cased and unloaded firearm from the designated parking area to the classroom assigned for that course and possess that firearm, uncased and unloaded, during the active period of instruction. The instructor will inspect all firearms prior to entering the classroom. No ammunition is allowed in the classroom or on campus

If you have any questions regarding this application or process contact:

Will Richards, Navigator/Advisor (406)756-4862

"Amplifying Montana's Advanced Manufacturing and Innovation Industry"

#TC-23760-12-60-A-30

This workforce solution was funded by a grant awarded by the U.S. Department of Labor's Employment and Training Administration. The solution was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership. This solution is copyrighted by the institution that created it. Internal use, by an organization and/or personal use by an individual for non-commercial purposes, is permissible. All other uses require the prior authorization of the copyright owner.

<http://creativecommons.org/choose/>



This work by the Amplifying Montana's Advanced Manufacturing and Innovation Industry grant is licensed under a [Creative Commons Attribution 4.0 International License](https://creativecommons.org/licenses/by/4.0/)

Firearms Technologies Certificate Program Information

This certificate program is designed to provide a solid foundation in theory, design, and function of firearms. It will prepare the student for an entry-level position in the firearms industry or provide a building block toward owning a business as a gunsmith. The program contains both lecture and significant hands-on training designed to instill an understanding of the design and function of today's firearms. **This program was built upon the premise of students having a solid entry level machining background prior to starting the program. The FVCC Machining Tier I/II programs is an example of this foundation.**

Practical application of knowledge in a safe and professional manner is stressed. Emphasis is placed upon the completion of several gunsmith projects from blueprints and schematics using a combination of both hand and machine tools. The student will acquire the basic knowledge to get started customizing guns. The program provides a clear understanding of firearms function, enabling graduates to assist with design or tolerance issues in a manufacturing environment. Students who complete the program leave with a collection of specialty tools.

- Loaded firearms are not permitted on campus.
- Students are expected to know and adhere to all firearms safety protocols. See program information website. <http://www.fvcc.edu/academics/academic-programs/technical-careers/advanced-manufacturing/firearms-technologies-certificate.html>
- Working knowledge of blueprint reading and precision measuring is recommended prior to enrolling.
- Persons under the age of 18 are not permitted to enroll in a Firearms Technologies course.
- Participants must comply with all local, state, and federal laws regarding firearms.
- Firearms Technologies students must be able to legally own and possess firearms.
- Required tools/supplies and firearms are the responsibility of the student.
- Financial aid and residency status do apply – please contact FVCC Registrar Marlene Stoltz (406)756-3846 for more information regarding residency.

Courses will be held week night evenings from 5:45p-8:45p with required lab times set up for Friday and Saturday (to be determined). FT 125 will be scheduled 5:00PM to 9:00PM.

Fall Semester

Course #	Title	Credits
__ FT 100	Introduction to Firearms	1
__ FT 111	Firearms Theory I	3
__ FT 120	Bench Metal Techniques	3
__ FT 131	Firearms Repair I	3
__ MCH 132	Intro to Manual Lathe	4

First Term Total 14

Spring Semester

Course #	Title	Credits
__ FT 112	Firearms Theory II	3
__ FT 125	Machine Tools for the Gunsmith	4
__ FT 132	Firearms Repair II	3
__ FT 140	Precision Rifle Building	3

Second Term Total 13

Total Credits 27

Firearms Technologies Certificate Application Information

*If you are not currently a student at Flathead Valley Community College you will need to complete an FVCC Application for Admission. **The Application for FVCC Admissions is a SEPARATE PROCESS**. For information go to www.fvcc.edu/admissions.html*

DO NOT INCLUDE the FVCC Application for Admission with your FVCC Firearms Technology Certificate Application. Admission to Flathead Valley Community College is a separate process and should be completed prior to applying for placement in the FVCC Firearms Technologies Certificate Program.

The FVCC Firearms Technologies Certificate has a 12 student class size limit. Student numbers are restricted due to the availability of lab space.

*Students with prior academic or work experience will have an opportunity to challenge **MCH 132 Intro to Manual Lathe**. See attached information regarding challenge dates and expectations.*

A **background check** is required for all students once they are accepted into the program. You must include payment for the background check with this application. Instructions are attached to calculate the amount due (based on number of states lived in during prior five years and cost per state). *If you ARE NOT accepted into the program the check will be returned and background check will not be processed.*

Applications must be submitted by 4pm on **May 1, 2014 (Friday).**

Applications may be mailed or hand delivered to the FVCC Admissions and Records Office. Please note that all applications will be date stamped upon receipt and considered on a first-come, first-served basis.

Mail to: FVCC Admissions and Records Office / Firearms Technologies Certificate Program
777 Grandview Drive, Kalispell, Montana 59901

Students will be informed of their selection status via an official letter from the Firearms Technologies program mailed on **May 11, 2015**.

*****If you have any questions contact: Will Richards (406)756-4862*****

NOTE FOR VETERANS: THE 85-15 PERCENT RATIO REQUIREMENT

VA regulations prohibit paying VA benefits to students enrolling in a course when more than 85% of the students enrolled in that course are having all or part of their tuition, fees, or other charges paid to or for them by the school or VA. If the ratio of VA students to non-VA students exceeds 85% at the time a VA student enters or reenters (after a break in enrollment), **the student is NOT entitled to VA benefits. For more information regarding Veteran Benefits contact: Sherry Taylor (406)756-3982.**

Firearms Technologies Certificate Application

Applications will only be accepted until 4 p.m. May 1, 2015

Last Name (Please Print) _____ First Name _____ Middle _____

Mailing Address **Notification of acceptance/non-acceptance will be sent to this address**

City _____ State _____ Zip _____ Telephone Number & Email _____

1. **Complete** the Machining and Firearms Work Experience Form.
2. **Complete** Authorization for Release of Information Form (background check) and include payment.
3. If you wish to challenge **MCH132**, **complete** the *FVCC Course Challenge* worksheet (<http://www.fvcc.edu/fileadmin/admissions/forms/Course-Challenge-10-2011.pdf?61d1e1>) and the attached *Prior Learning Challenge* document. You will need call to register and attend one section of the challenge sessions if you plan to challenge a course.
 - a. Harry Smith/Dan Leatzow will conduct the hands-on challenge of MCH 132 and 134
 - b. Challenge dates Monday-Friday ; **May 11-15, 2015** (each section is four hours. The section includes a written test and hands-on component).
 - c. For questions specific to the challenge and to register for a challenge call **Dan Leatzow** (406)756-4187.
4. **Provide** photo identification with proof of age and proof of U.S. citizenship or foreign residency status.
5. **Sign** the Acknowledgement of Program Requirement and Personal Commitment Form.
6. **Sign** the Application below.
7. **Mail** completed and signed application, and all supporting forms in a sealed envelope to: FVCC Admissions Office/Firearms Technologies Certificate, 777 Grandview Drive, Kalispell, MT 59901
8. **Retain** a copy of this ENTIRE application for your records (*It is your responsibility to make your own copy*).

Student Signature _____

Date _____

AN INCOMPLETE AND/OR UNSIGNED APPLICATION WILL NOT BE PROCESSED.

**Firearms Technologies Certificate
Application - Work Experience Form**

Machining and Firearms Work Experience

Name and address of facility	Job Title	Job Responsibility	Dates of employment and hours per week	Supervisor's name and current phone number

Resume's which include all the information above are acceptable.

Firearms Technologies Certificate Acknowledgement of Program Requirements

READ THE FOLLOWING INFORMATION, INITIAL EACH ITEM AND SIGN THE FORM.

_____ I understand that I must be over the age of 18 to enroll in the Firearms Technologies Certificate program.

_____ I understand that I must be able to legally own and possess firearms to apply to the program.

_____ I agree to comply with all local, state, and federal laws regarding firearms while enrolled.

_____ I understand that all required tools/supplies and firearms are my responsibility.

_____ I understand that I must submit all application materials and forms with this application. Upon acceptance to the program I understand I will submit a photo ID proof of age, and proof of U.S. Citizenship, or foreign residency status. See FVCC catalog for detailed information regarding foreign students.

_____ I understand that if I withdraw from the program for any reason a new application will be required for admission into the program. Re-entry is not guaranteed.

_____ I understand that I will be notified in writing **May 11, 2015** whether or not I have been accepted in the FVCC Firearms Technologies Certificate program.

_____ I understand that all placements in the FVCC Firearms Technologies Certificate are dependent upon sufficient financial, faculty and lab resources. See FVCC catalog for details.

_____ I understand that students enrolled in FVCC's Firearms Technologies Certificate program may, during the time of the course, carry a cased and unloaded firearm from the assigned parking area to the classroom assigned for that course and possess that firearm, uncased and unloaded, during the active period of instruction. Firearms ARE NOT permitted anywhere else on campus. The instructor will inspect all firearms prior to entering the classroom. No ammunition is allowed in the classroom or on campus.

_____ I have reviewed the program information and understand the sequence of courses.

_____ I understand that my final admission to the program is contingent upon my completing a background check to demonstrate that I am legally able to own and possess firearms. I have included a check for the cost (per state cost – see form) of the background check – I understand if I am NOT accepted into the program the check will be returned.

_____ VETS: _____ Yes I will be using VA Educational benefits for this program. Contact Sherry Taylor for further information (406)756-3982.
_____ No I will NOT be using VA Educational benefits for this program.

SIGNATURE

DATE

**Firearms Technologies Certificate
Background Check**

AUTHORIZATION FOR RELEASE OF INFORMATION

(Carefully read this authorization to release information about you, then fill out, sign and date in black ink. You may retain a copy for your records. **(Please print very clearly)**)

I authorize Flathead Valley Community College, through their investigative agent, **Orion International Corporation**, to obtain any information relating to my activities from individuals, schools, residential management agents, employers, criminal justice agencies, retail business establishments, motor vehicle/registration departments, credit bureaus, consumer reporting agencies, collection agencies, or other sources of information.

This information may include, but is not limited to, my academic, residential, achievement, performance, attendance, disciplinary, employment history, criminal history record information, driving and motor vehicle record, and financial and credit information.

I authorize **Orion International Corporation** to disclose the record of my background investigation to Flathead Valley Community College.

I authorize, **and request**, custodians of records and other sources of information pertaining to me to release such information to **Orion International Corporation** regardless of any previous agreement to the contrary.

Copies of this authorization that show my signature are as valid as the original release signed by me.
This authorization is valid for one (1) year from the date signed or upon my termination of my academic enrollment at Flathead Valley Community College, whichever is sooner.

Full and complete name (printed): _____

Other names used (printed): _____

Date of birth: _____ Social security number: _____

Signature: _____ Date signed: _____

Please list state(s) you have lived in during the last five years: _____

**Firearms Technologies Certificate
Background Check
State Fees**

Add the fees for the states in which you have lived for the past five years AND include a check or money order WITH your application for the total dollars: Checks/money orders to be made payable to FVCC. These are US dollars.

ALABAMA AL	\$30.00	MISSOURI MO	\$40.00
ALASKA AK	\$50.00	NEBRASKA NE	\$40.00
ARIZONA AZ	\$30.00	NEVADA NV	\$40.00
ARKANSAS AR	\$49.00	NEW HAMPSHIRE NH	\$45.00
CALIFORNIA CA	\$30.00	NEW JERSEY NJ	\$30.00
COLORADO CO	\$30.00	NEW MEXICO NM	\$32.00
CONNECTICUT CT	\$70.00	NEW YORK NY	\$85.00
DELAWARE DE	\$30.00	NORTH CAROLINA NC	\$30.00
D.C.	\$30.00	NORTH DAKOTA ND	\$35.00
FLORIDA FL	\$44.00	OHIO OH	\$30.00
GEORGIA GA	\$30.00	OKLAHOMA OK	\$35.00
HAWAII HI	\$40.00	OREGON OR	\$35.00
IDAHO ID	\$40.00	PENNSYLVANIA PA	\$30.00
ILLINOIS IL	\$36.00	RHODE ISLAND RI	\$30.00
INDIANA IN	\$37.00	SOUTH CAROLINA SC	\$45.00
IOWA IA	\$35.00	SOUTH DAKOTA SD	\$40.00
KANSAS KS	\$40.00	TENNESSEE TN	\$49.00
KENTUCKY KY	\$42.00	TEXAS TX	\$30.00
LOUISIANA LA	\$30.00	UTAH UT	\$40.00
MAINE ME	\$51.00	VERMONT VT	\$50.00
MARYLAND MD	\$30.00	VIRGINIA VA	\$35.00
MASSACHUSETTS MA	\$70.00	WASHINGTON WA	\$30.00
MICHIGAN MI	\$30.00	WEST VIRGINIA WV	\$30.00
MINNESOTA MN	\$30.00	WISCONSIN WI	\$30.00
MISSISSIPPI MS	\$35.00	WYOMING WY	\$30.00
<u>MONTANA MT</u>	<u>\$32.00</u>		

TOTAL Due: _____ (US)

Make checks or money orders payable to: FVCC

Firearms Technologies Certificate
Prior Learning Challenge
Machining 132 Lathe

If you wish to challenge **MCH132** Lathe Systems **complete** the *FVCC Course Challenge* worksheet (<http://www.fvcc.edu/fileadmin/admissions/forms/Course-Challenge-10-2011.pdf?61d1e1>).

In addition:

- a. Harry Smith/Dan Leatzow will conduct the challenge exam and hands-on evaluation for **MCH132** Lathe Systems.
- b. Challenge dates : Monday-Friday **May 11-15, 2015**. The challenge sessions will be scheduled in 4 hour blocks. Register for only ONE block of time.
- c. Student must pass the written exam (80% or higher) prior to performing the hands-on evaluation.
- d. For questions specific to the challenge and to register call (406)756-4187.

MCH 132 Lathe Systems Credits 4

This course is the study of basic machine tool operations and forming processes. Topics addressed include lathe work, turning diameters, angles, tapers, drilling holes and threading internal and external threads (FVCC catalog).

Course Outcomes:

- Perform the operation and upkeep of a manual Lathe.
- Grind/Setup HSS tool bits.
- Produce tapers, knurls, shoulders, necks radii, diameters, faces, internal and external threads.

To challenge either course a student must document equivalent academic experience (C or better grade) or work experience NO LONGER than five years prior to this application. A copy of academic transcript should be attached to this request if applicable. In addition, the student will meet with the FVCC instructor for a written exam and hands-on evaluation.

Course challenge hands-on evaluations will be held Monday-Friday between **May 11-15, 2015**. If you are an out-of-district person the utilization of a local ACADEMIC machining program can be discussed, and agreed upon, with the FVCC instructor.

The course challenge consists of two parts: 1) a written exam, and 2) a hands-on evaluation of a designated component. The written exam must be completed first and a hands-on evaluation will only be permitted if the person challenging the course scores 80% or higher on the written exam.

The hands-on evaluation must be completed under the supervision of an FVCC instructor or designated proctor identified by the FVCC instructor.

FIREARMS TECHNOLOGIES CERTIFICATE
Mandatory Tool List and Firearms List

Students enrolled in the Firearms Technologies Certificate program **are required** to purchase personal hand tools, gun cleaning supplies, and consumables. The tools on the list below are **required** when you arrive for the first day of class. Students may desire other tools and materials at their own discretion.

Safety glasses (prescription glasses are acceptable)

Machinist's tool kit (Enco # 505-1815) which contains:

6" steel rule with 1/8, 1/16, 1/32 and 1/64" graduations

0 – 1" outside micrometer with .0001 graduations

6" dial or digital caliper

(comparable tools may also be purchased separately)

Depth Micrometer, 0-1"

Hacksaw frame & blades 24 & 32 tooth

Center punch

Scribe

60 degree center gauge "fishtail" (Enco # 615-6300)

Combination wrench set (Enco #619-2100)

Allen wrench sets Metric and Inch

8" or 10" mill cut file

8" or 10" bastard (Enco # 382-1240 or 382-1242)

8" or 10" second cut file

6" smooth file

6" fine file (Enco # 382-1256)

Fine needle file set (not diamond files)

File handles for all your files

File card & brush (Enco # 382-6992)

1" dial indicator and magnetic base with .001 graduations (Enco #505-1848)

4 & 8 oz. ball peen hammer

1" brass & nylon hammer such as Brownells # 818-600-100

6 x ½ x ½ inch india or aluminum oxide sharpening stone (Enco # 317-1585)

Calculator

Locking bench top tool box to secure your tools

Dykem or equivalent

Machinist square 4"

Assorted flat blade screw drivers (Stanley 100 Plus or equivalent)

Punch set Enco #891-7137

Tap and die set (Midwayusa #717745) or equivalent (up to ½")

Taps 6-48 one each, taper, bottom, and plug

Taps 8-40 one each, taper, bottom, and plug

Drill index with all drills (Enco, Model #240-6490 or equal)

Tap fluid

Small flashlight

Heavy duty lock for student locker

Additional cost for firearms testing at a designated firing range. (NO AMMUNITION ALLOWED ON CAMPUS).

Firearms Technologies Certificate

Optional tools and supplies

As the title implies the list below is optional but is suggested. You may desire to add these materials and tools as you need them. Tools and materials can vary widely from student to student depending upon the projects at hand.

Shop apron or coat
Steel Wool #0000
Acetone
Gun solvent
Gun Oil (Breakfree or Tri-Flow, etc.)
Tooth brushes
Cheap paint bushes for cleaning 1 or 2”
Q-Tips
Cleaning patches various sizes
Cleaning rods of various calibers with brushes and jags
Masking tape (blue painters)
Electrical tape
Dust masks
Tooth picks
Edge finder for mill
Small pans for holding parts
Small Tape measure
Cross test level
Non marring mallet, 10 oz. to 16 oz.
Scissors
Sand paper wet or dry 150 up to 600
Sand paper open coat 120 to 400
Foredom™ or Dremel™ die grinder and bits
Optivisor™

Firearms Technologies Certificate

Mandatory Required Firearms List by Class

(if you are borrowing/loaning a particular gun it MUST BE inspected by the instructor prior to returning to the owner- for safety reasons)

Firearms Theory I

Colt style single action revolver
S&W revolver, double action
Colt revolver, double action
Winchester 94
Marlin 336, 444 or 94
Bolt action rifle Remington, Winchester, or Mauser

Firearms Theory II

AR-15 any make
AK variant
Ruger 10-22
Marlin Model 60 or variant
Remington 870
Mossberg 500
1911
Browning Hi-Power or equivalent

Firearms Repair I

Double action revolver any make
Remington 870
Mossberg 500
Remington Model 1100 or 11-87
Ruger 10-22
AK
SKS
AR-15 any make

Firearms Repair II

Any long gun for sight installation
Any long gun for scope installation
Shotgun for bead installation
Handgun for sight installation and/or Modification
Any and all repairs or modifications

Machine Tools for the Gunsmith (Barrel Fitting)

One recessed breech rifle, Remington 700 or equivalent
One cone breech, Enfield, Springfield or Winchester
One flat breech, Mauser, Ruger or Montana

Precision Rifle Building

Any quality bolt action.
Remington 700 style actions are most popular in this class.