Instructional Program Review

Program: Gunsmithing

Academic Year:2022/2023

Author(s): J. Martin, B.Bauer

Accepted by Academic Senate: February 22, 2023

Accepted by Consultation Council: February 27, 2023

Accepted by Governing Board: March 14, 2023

Executive Summary

The executive summary should be a consolidation of key findings, program plans, and participants that contributed to the review

The Lassen College gunsmithing program is a unique program with the community college system. The program offers one and two week long classes that offer a wide variety of skill sets to the student and prospective gunsmith. The courses are hands on and for the beginner as well as the current gunsmith to learn or advance their skills. The Lassen college gunsmithing program is also endorsed by the NRA for the short term gunsmithing courses (summer classes). These classes include but not limited to law enforcement armorer classes, general gunsmithing, machine shop as well as a variety of other courses to offer the students.

The gunsmithing program has seen a decline in enrollment and was believed to be because of the online enrollment system that was being used. The gunsmithing program used an in person registration before 2013 and was successful but changed to the online system. In 2020 the gunsmithing program started using the in person registration again and was a success considering the Covid-19 pandemic. Since 2020 there has been an increase in enrollment and in the spring of 2022 a committee was formed of Lassen college employees and voted to revitalize the gunsmithing program. The revitalization was said to be because of low enrollment and change the format to give the students more time to complete an A.S. degree in two years.

The changes to the program are mandated by administration and the revitalization committee. The revitalization and what is changing is as follows:

- The gunsmithig program did not take in students for the 2022-23 school year
- This break was to give the two full time employees' time to rewrite/update curriculum and finish out the current students in the current format.
- Change in format to change from the one/two week classes to semester length classes
- Reduce the hours the students are in gunsmithing classes so the student will have time to complete the general education requirement to obtain and Associate degree in a two year period
- Update curriculum to expand on some firearm platforms including inertia operated shotguns(Benelli),Glock auto pistols and AR 15 style rifles including the standard operating system(direct gas impingement) and piston operating system.
- Update facilities; replace the shipping containers that were unusable with one 40' container for storage of equipment that clutters the shop and is only used once a year. With the external storage area we can make our storage room into a spray area for spraying firearm finishes.
- Purchase new equipment for applying firearm finishes i.e. ovens and spray booth

The revitalization and changes are only being made to the two year degree/certificate program. There are no changes at this time to the NRA summer classes.

As this is being written the curriculum has been rewritten and has been reviewed by the advisory committee, curriculum committee, the North Far North committee and now is going to the chancellor's

office to be approved. As soon as we can get the chancellor's office approval we will start advertising for the updated program, to start taking in students for the 2023-24 school year starting in August 2023. With the updated program there will be some small adjustments that will need to be made to the program. These adjustments are not know at this time but will be reviewed in the next review cycle. The gunsmithing program will continue to improve and stay at the leading edge of the industry with input from our advisory committee. The facilities director is looking at moving the gunsmithing department in the next 5 years. This move will be to facilitate the student services being in one location. John Martin and Buck Bauer, both full time faculty for the Lassen College gunsmithing program have contributed to this document.

SECTION 1: ACADEMIC PLANNING

Program Overview, Objectives, and Student Learning Outcomes

• Describe the program (types of degrees offered, jobs/industries/transfer pathways associated with the program, faculty members in program)

The mission of the Lassen Community College Gunsmithing Program is as follows:

- Provide a comprehensive series of courses to enable the student to develop necessary industry skills and earn an A.S. Degree.
- Provide specific vocational training in specific Gunsmithing subjects to facilitate entry-level employment and develop job skills to advance in current career.

The objective of the Gunsmithing program is as follows:

• Identify industry standards and needs and provide individuals with opportunities to advance within the industry through vocational training with an A.S. Degree or Certificate from Lassen Community College.

The goals of the Gunsmithing Program are as follows:

- Treat each student with respect to encourage each student to establish and reach his/her goals and objectives within the field of Gunsmithing.
- Expand the use of industry technology in both degree and certificate courses.
- With the participation of an active Advisory Committee, review and improve the Program curriculum every two years.
- Describe and evaluate the program objectives against the LCC strategic plan, specifically the mission statement and strategic goals

The objective of the Gunsmithing program is as follows:

• Identify industry standards and needs and provide individuals with opportunities to advance within the industry through vocational training with an A.S. Degree or Certificate from Lassen Community College.

The following are approved Student Learning Outcomes for the Degrees and Certificates offered in the Gunsmithing program;

• Associate in Science Degree Firearms Repair

- 1. Diagnose a specific firearm malfunction, execute the appropriate corrective step and verify the problem has been resolved.
- 2. Perform firearms repair and maintenance procedures on the large variety of firearms common to retail Gunsmithing operation and do them legally under state and federal law.
 - Certificate of Achievement Gunsmith Machinist and Metal Finishing

1. Design and machine firearm parts and fixtures using the appropriate tools and techniques.

- 2. Apply the appropriate polishing technique and finish to metal firearms parts.
- Certificate of Achievement Firearms Repair
 - 1. Diagnose specific firearm malfunctions, execute the appropriate corrective step and verify the problem has been resolved.
 - 2. Perform appropriate custom alterations and modifications to specified firearm platforms
- Evaluate any changes in the program since last review. Include summary of Annual Updates completed since last review. Regular program assessment will drive program improvements.

The Lassen Community College gunsmithing program is currently in the revitalizing process. With that we have paused taking in students for the 2022-2023 school year and finishing out the current students that are in the program. This pause is to give current fulltime staff to rewrite/update curriculum and update facilities.

- The curriculum changes include changing the format of the classes from one-week long blocks to semester length courses,
- New firearm platforms such as inertia operated shotguns (Benelli), Striker fired auto pistols (Glock) and AR-15 style rifles.
- The curriculum will also include some CNC (computer numerical control) programing as well as machine use.
- The facilities update includes adding storage next to the machine shop and changing the storage room into a spray booth.
- Listed is some of the differences we will have with the updated program

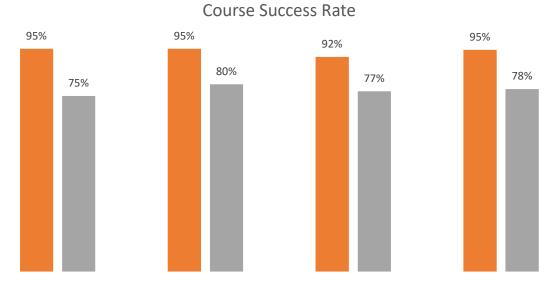
The current contact hours per week; 40 Proposed contact hours per week; 27 Current enrollment per year; 704

Proposed enrollment per year; 440

As this is written, we have currently completed the curriculum changes and waiting for them to be approved by the chancellor so that we can start advertising for the updated program. The gunsmithing program is also waiting for the facilities updates to be completed. The new equipment is ordered but has not arrived at this time.

Student Achievement and Learning Outcomes

Trends and Patterns in Student Achievement



Gunsmithing Overall Success Rate

Lassen College Success Rate

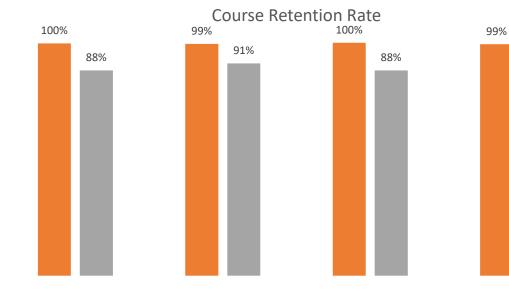
| Course Success Rate | 2018-19 | 2019-20 | 2020-21 | 2021-22 |
|----------------------------------|---------|---------|---------|---------|
| Program-Level | | | | |
| Gunsmithing Overall Success Rate | 95% | 95% | 92% | 95% |
| Lassen College Success Rate | 75% | 80% | 77% | 78% |
| Course-Level | | | | |
| GSS 112 | 95% | 70% | - | 83% |
| GSS 114 | 100% | - | - | 100% |
| GSS 117 | 100% | 100% | - | 100% |
| GSS 119 | 100% | 100% | - | 100% |
| GSS 134 | 100% | - | - | 100% |
| GSS 135 | - | 100% | - | 100% |
| GSS 147 | 100% | - | - | - |
| GSS 49 | 60% | 0% | - | - |
| GSS 50.01 | 92% | 63% | 90% | 100% |
| GSS 50.03 | 100% | 100% | 100% | 90% |
| GSS 51.01 | 100% | - | 88% | 100% |
| GSS 51.03 | - | - | - | 100% |
| GSS 51.05 | 100% | - | 75% | 100% |
| GSS 51.06 | 100% | - | 94% | 100% |
| GSS 52.01 | 100% | 100% | 100% | 100% |
| GSS 52.02 | 93% | 100% | 100% | 100% |
| GSS 52.03 | 100% | 100% | 100% | 100% |
| GSS 52.04 | 100% | 50% | 89% | 100% |
| GSS 52.05 | 100% | 100% | 100% | 100% |
| GSS 52.06 | 100% | 100% | 100% | 25% |
| GSS 52B | 100% | - | - | - |
| GSS 52BR | 100% | - | - | - |

| GSS 54.05 | 100% | 100% | 100% | 100% |
|------------------------|------|------|------|------|
| GSS 55.04 | 100% | - | 82% | 90% |
| GSS 56.01 | 100% | 75% | 100% | 100% |
| GSS 56.03 | 100% | 100% | 100% | 100% |
| GSS 56.04 | 100% | 100% | 100% | 100% |
| GSS 57.01 | 100% | 100% | 63% | 100% |
| GSS 57.02 | 100% | 100% | 100% | 100% |
| GSS 57.03 | 100% | 100% | 100% | 100% |
| GSS 57.06 | 100% | 100% | 100% | 100% |
| GSS 57.08 | 71% | 38% | 44% | 45% |
| GSS 57.15 | 100% | 100% | 75% | 100% |
| GSS 58.02 | 100% | - | 88% | 90% |
| GSS 59.02 | 100% | 100% | 100% | 100% |
| GSS 59.02 | 100% | 100% | 100% | 100% |
| GSS 59.04 | 100% | 88% | 100% | 100% |
| GSS 59.04 | 87% | 100% | 100% | 100% |
| GSS 59.07 | 86% | 100% | 86% | 100% |
| GSS 59.09 | 100% | 100% | 100% | 100% |
| GSS 60.01 | 86% | 100% | 100% | 86% |
| GSS 60.02 | 86% | 100% | 100% | 71% |
| GSS 60.02 | 100% | 100% | 100% | 100% |
| GSS 60.04 GSS 61.01 | 83% | 100% | 100% | 86% |
| | | | | |
| GSS 61.02 | 100% | 100% | 100% | 100% |
| GSS 61.03 | 93% | 100% | 100% | 100% |
| GSS 62.03 | 92% | 83% | 43% | 86% |
| GSS 62.04 | 100% | 100% | 100% | - |
| GSS 63.01 | 100% | - | 95% | 100% |
| GSS 63.02 | 100% | - | 95% | 86% |
| GSS 63.03 | 100% | - | 94% | 100% |
| GSS 63.05 | 100% | 100% | 100% | 83% |
| GSS 64.01 | 85% | - | 80% | 78% |
| GSS 66.01 | 92% | 100% | 71% | 86% |
| GSS 66.02 | 80% | 100% | 100% | 100% |
| GSS 66.03 | 93% | 83% | 71% | 100% |
| GSS 67.01 | 86% | 100% | 100% | 100% |
| GSS 68.01 | 87% | 100% | 100% | 86% |
| GSS 68.02 | 100% | 100% | 100% | 100% |
| GSS 68.03 | 75% | 92% | 100% | 86% |
| GSS 69.01 | 92% | 100% | 86% | 83% |
| GSS 69.02 | 100% | 100% | 71% | 86% |
| GSS 69.03 | 100% | 92% | 71% | 86% |
| GSS 69.04 | 100% | - | 100% | - |
| GSS 70 | - | 78% | - | 100% |
| GSS 70.01 | 100% | 100% | 100% | 100% |
| GSS 70.02 | 100% | 100% | 100% | 100% |
| GSS 71.01 | 92% | 100% | 71% | 83% |
| GSS 71.02 | 85% | 92% | 71% | 83% |
| GSS 71.03 | 92% | 92% | 57% | 86% |

| GSS 71.04 | 100% | - | 100% | 100% |
|----------------|------|------|------|------|
| GSS 72.01 | 100% | 100% | - | 100% |
| GSS 73.02 | 81% | 100% | 100% | 100% |
| GSS 75.02 | 100% | - | 100% | 100% |
| GSS 77 | - | - | - | 100% |
| GSS 79 | - | 100% | - | - |
| GSS 82 | 100% | 100% | - | 86% |
| GSS 83 | - | - | - | 100% |
| GSS 87 | 100% | 77% | - | 100% |
| GSS 88 | 100% | - | - | 100% |
| GSS 89 | 100% | 100% | - | 100% |
| GSS 93 | - | - | - | 100% |
| GSS 95 | 100% | 100% | - | 100% |
| GSS 98.03 | 100% | - | - | - |
| GSS 98.05 | - | 100% | - | - |
| GSS 98.06 | - | - | - | 100% |
| GSS 98.08 | - | 93% | - | 88% |
| GSS 98.09 | 100% | - | - | - |
| GSS 98.12 | - | - | - | 100% |
| GSS 98.21 | 89% | 100% | 100% | 100% |
| GSS 98.22 | 96% | 100% | - | 100% |
| GSS 98.23 | 100% | 100% | 100% | 100% |
| GSS 98.24 | 88% | 1 | 1 | 1 |
| Modality | | | | |
| Correspondence | - | - | - | - |
| Face-to-Face | 95% | 95% | 92% | 95% |
| Online | - | - | - | - |
| Hybrid | - | - | - | - |

| Success Rate by Student Demographic | 2018-19 | 2019-20 | 2020-21 | 2021-22 |
|-------------------------------------|---------|---------|---------|---------|
| Program-Level | | | | |
| Gunsmithing Overall Success Rate | 95% | 95% | 92% | 95% |
| Lassen College Success Rate | 75% | 80% | 77% | 78% |
| Gender | | | | |
| Female | 100% | 100% | - | 100% |
| Male | 95% | 95% | 92% | 95% |
| Unreported | 100% | 100% | - | 100% |
| Ethnicity-Race-Ancestry | | | | |
| American Indian or AK Native | 78% | 100% | 100% | 92% |
| Asian | 70% | 100% | - | 100% |
| Black or African American | 100% | 100% | - | - |
| Filipino | - | 100% | - | 100% |
| Hispanic or Latino | 99% | 92% | 89% | 100% |
| Pacific Islander | - | 100% | - | - |
| White | 96% | 96% | 90% | 92% |
| Other | - | - | - | - |
| Unreported | - | 94% | 98% | 99% |
| Age Group | | | | |
| 17 and Under | - | 100% | - | - |
| 18 to 24 | 89% | 94% | 92% | 94% |
| 25 to 49 | 99% | 96% | 92% | 94% |
| 50 and Over | 95% | 96% | 91% | 99% |

89%



Gunsmithing Overall Retention Rate

Lassen College Retention Rate

| Retention Rate | 2018-19 | 2019-20 | 2020-21 | 2021-22 |
|------------------------------------|---------|---------|---------|---------|
| Program-Level | | | | |
| Gunsmithing Overall Retention Rate | 100% | 99% | 100% | 99% |
| Lassen College Retention Rate | 88% | 91% | 88% | 89% |
| Course-Level | | | | |
| GSS 112 | 95% | 70% | - | 83% |
| GSS 114 | 100% | - | - | 100% |
| GSS 117 | 100% | 100% | - | 100% |
| GSS 119 | 100% | 100% | - | 100% |
| GSS 134 | 100% | - | - | 100% |
| GSS 135 | - | 100% | - | 100% |
| GSS 147 | 100% | - | - | - |
| GSS 49 | 100% | 100% | - | - |
| GSS 50.01 | 100% | 100% | 100% | 100% |
| GSS 50.03 | 100% | 100% | 100% | 100% |
| GSS 51.01 | 100% | - | 100% | 100% |
| GSS 51.03 | - | - | - | 100% |
| GSS 51.05 | 100% | - | 94% | 100% |
| GSS 51.06 | 100% | - | 100% | 100% |
| GSS 52.01 | 100% | 100% | 100% | 100% |
| GSS 52.02 | 93% | 100% | 100% | 100% |
| GSS 52.03 | 100% | 100% | 100% | 100% |
| GSS 52.04 | 100% | 100% | 100% | 100% |
| GSS 52.05 | 100% | 100% | 100% | 100% |
| GSS 52.06 | 100% | 100% | 100% | 100% |
| GSS 52B | 100% | - | - | - |
| GSS 52BR | 100% | - | - | - |
| GSS 54.05 | 100% | 100% | 100% | 100% |
| GSS 55.04 | 100% | - | 100% | 100% |

| GSS 56.01 | 100% | 100% | 100% | 100% |
|-----------|------|------|------|------|
| GSS 56.03 | 100% | 100% | 100% | 100% |
| GSS 56.04 | 100% | 100% | 100% | 100% |
| GSS 57.01 | 100% | 100% | 100% | 100% |
| GSS 57.02 | 100% | 100% | 100% | 100% |
| GSS 57.03 | 100% | 100% | 100% | 100% |
| GSS 57.06 | 100% | 100% | 100% | 100% |
| GSS 57.08 | 100% | 100% | 100% | 100% |
| GSS 57.15 | 100% | 100% | 100% | 100% |
| GSS 58.02 | 100% | - | 100% | 100% |
| GSS 59.02 | 100% | 100% | 100% | 100% |
| GSS 59.03 | 100% | 100% | 100% | 100% |
| GSS 59.04 | 100% | 100% | 100% | 100% |
| GSS 59.05 | 100% | 100% | 100% | 100% |
| GSS 59.07 | 100% | 100% | 100% | 100% |
| GSS 59.09 | 100% | 100% | 100% | 100% |
| GSS 60.01 | 100% | 100% | 100% | 86% |
| GSS 60.02 | 100% | 100% | 100% | 86% |
| GSS 60.04 | 100% | 100% | 100% | 100% |
| GSS 61.01 | 100% | 100% | 100% | 100% |
| GSS 61.02 | 100% | 100% | 100% | 100% |
| GSS 61.03 | 100% | 100% | 100% | 100% |
| GSS 62.03 | 100% | 100% | 100% | 100% |
| GSS 62.04 | 100% | 100% | 100% | - |
| GSS 63.01 | 100% | - | 100% | 100% |
| GSS 63.02 | 100% | - | 100% | 100% |
| GSS 63.03 | 100% | - | 100% | 100% |
| GSS 63.05 | 100% | 100% | 100% | 100% |
| GSS 64.01 | 100% | - | 100% | 100% |
| GSS 66.01 | 100% | 100% | 100% | 100% |
| GSS 66.02 | 100% | 100% | 100% | 100% |
| GSS 66.03 | 100% | 100% | 100% | 100% |
| GSS 67.01 | 100% | 100% | 100% | 100% |
| GSS 68.01 | 100% | 100% | 100% | 100% |
| GSS 68.02 | 100% | 100% | 100% | 100% |
| GSS 68.03 | 94% | 100% | 100% | 100% |
| GSS 69.01 | 100% | 100% | 100% | 100% |
| GSS 69.02 | 100% | 100% | 100% | 100% |
| GSS 69.03 | 100% | 100% | 100% | 100% |
| GSS 69.04 | 100% | - | 100% | - |
| GSS 70 | - | 100% | - | 100% |
| GSS 70.01 | 100% | 100% | 100% | 100% |
| GSS 70.02 | 100% | 100% | 100% | 100% |
| GSS 71.01 | 100% | 100% | 100% | 100% |
| GSS 71.02 | 92% | 100% | 100% | 100% |
| GSS 71.03 | 100% | 100% | 100% | 100% |
| GSS 71.04 | 100% | - | 100% | 100% |
| GSS 72.01 | 100% | 100% | - | 100% |

| GSS 73.02 | 100% | 100% | 100% | 100% |
|----------------|------|------|------|------|
| GSS 75.02 | 100% | - | 100% | 100% |
| GSS 77 | - | - | - | 100% |
| GSS 79 | - | 100% | - | - |
| GSS 82 | 100% | 100% | - | 86% |
| GSS 83 | - | - | - | 100% |
| GSS 87 | 100% | 100% | - | 100% |
| GSS 88 | 100% | - | - | 100% |
| GSS 89 | 100% | 100% | - | 100% |
| GSS 93 | - | - | - | 100% |
| GSS 95 | 100% | 100% | - | 100% |
| GSS 98.03 | 100% | - | - | - |
| GSS 98.05 | - | 100% | - | - |
| GSS 98.06 | - | - | - | 100% |
| GSS 98.08 | - | 93% | - | 88% |
| GSS 98.09 | 100% | - | - | - |
| GSS 98.12 | - | - | - | 100% |
| GSS 98.21 | 100% | 100% | 100% | 100% |
| GSS 98.22 | 100% | 100% | - | 100% |
| GSS 98.23 | 100% | 100% | 100% | 100% |
| GSS 98.24 | 100% | 100% | 100% | 100% |
| Modality | | | | |
| Correspondence | - | - | - | - |
| Face-to-Face | 100% | 99% | 100% | 99% |
| Online | - | - | - | - |
| Hybrid | - | - | - | - |

| Degree and Certificates | 2018-19 | 2019-20 | 2020-21 | 2021-22 |
|--|---------|---------|---------|---------|
| Gunsmithing Degrees Awarded | 10 | 6 | 10 | 4 |
| Lassen College Degrees Awarded | 310 | 260 | 338 | 236 |
| Gunsmithing Certificates Awarded | 28 | 4 | 13 | 4 |
| Lassen College Certificates Awarded | 156 | 128 | 161 | 72 |
| Degree or Certificate Program | | | | |
| AS Firearms Repair | 5 | 3 | 5 | 2 |
| AS General Gunsmithing | 5 | 3 | 5 | 2 |
| Cert. of Achievement Firearms Repair | 14 | 2 | 11 | 2 |
| Certificate of Achievement General Gunsmithing | 14 | 2 | 12 | 2 |

Achievement

Based on your review of the data trends above (e.g., course success, retention, awards) please provide an analysis of achievement gaps and accomplishments in the program.

The data provided shows that the Lassen Community College Gunsmithing program had great success and retention rates. The rates were well above the average for the college as a whole. Due to the gunsmithing program revitalizing and changing the program format the success and retention rate is suspected to decline. The success and retention rates were much lower when the program was in the semester format and we are changing back to that format. The current format focuses on one subject or firearm platform and is completed in one week there is no other subjects in that time period. The new format will give the student several lectures on different subjects/firearm platforms in one day and can lead the student to some confusion and combining of the subjects. The instructor will do extensive demonstrations and tutoring in the lab to try to mitigate these issues.

Equity

Based on your review of the data trends above (e.g., course success, retention) please provide a narrative to outline opportunities to address any equity gaps.

There are no equity gaps at this time. The Gunsmithing program is under revitalization and we will have to wait until the next review cycle to see how the updates are working out.

Student Learning Outcomes

SLO assessment is important to maintain and improve an effective learning experience for LCC students. Evaluating SLO results regularly is helpful for evaluating student learning and identifying emerging program needs. There is a link between SLO assessment results, SLO improvement plans and review of curriculum and/or budget requests. Regular program assessment will drive program improvement. These records are maintained in the online Data Management and Visualization tool (TABLEAU) and are available for review by faculty at any time through its self-updating, interactive dashboards, and reports. Feedback and narrative from the Share Point tool will be included in the reports.

*By contract, faculty are required to prepare and submit an SLO Assessment Plan for each class within one week of the first-class meeting and implementation of the assessment method as indicated on the SLO Plan for each class. Submission of the (a) results of the assessment methods and (b) steps taken as result of the assessment within five (5) District business days after the last scheduled meeting of the class. Both submissions will be made in accordance with District tracking procedures (I.e., may be paperbased or electronic).

• Provide an analysis of findings of the assessments completed and recommendations being made in individual assessments.

The Gunsmithing program is under revitalization. This will have to be reviewed at the next review cycle to see if the updates are an improvement.

- Consider the impact or influence of the assessment results at the program level. The results show the courses offered were very successful.
- Identify and evaluate the Program Student Learning Outcomes including the relationship between course, program and institutional student learning outcomes utilizing information provided by the Office of Institutional Effectiveness.

The PSLOs show that the students are meeting the SLO and there is no improvement needed. The course format will change before the next review cycle and we will see if this stays the same.

| Course Assessed | Recommendations for Improvement |
|------------------------------------|---------------------------------|
| GSS-112 Machine Shop For Gunsmiths | No improvement needed |
| GSS-114 Basic Rifle Barreling | No improvement needed |
| GSS-117 GTAW For Gunsmiths | No improvement needed |
| GSS-119 Advanced Rifle Barreling | No improvement needed |
| GSS-134 Caustic Bluing | No improvement needed |
| GSS-135 Parkerizing | No improvement needed |
| GSS-147 Assemble/Tung Gas Rif | No improvement needed |
| GSS-49 Gunsmithing Work Experience | See work experience IPR |
| GSS-50.01 Recoil Pad Install | No improvement needed |
| GSS-50.03 Open Sight Install | No improvement needed |
| GSS-51.01 Stock Inletting | No improvement needed |
| GSS-51.03 Stock Shaping | No improvement needed |
| GSS-51.05 Glass Bedding | No improvement needed |
| GSS-51.06 Wood Stock Finishing | No improvement needed |

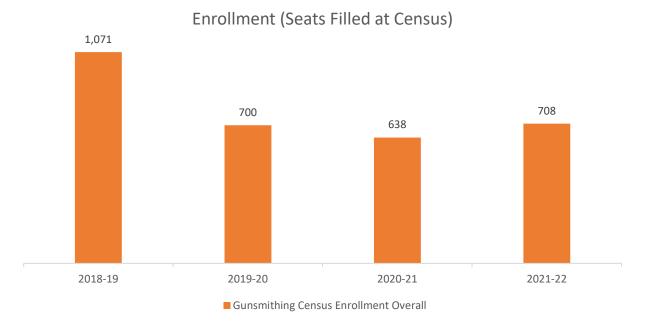
| GSS-52.01 Gunsmith Machining I | No improvement needed |
|--|-----------------------|
| GSS-52.02 Gunsmith Machining 2 | No improvement needed |
| GSS-52.03 Gunsmith Machining 3 | No improvement needed |
| GSS-52.04 Gunsmith Machining 4 | No improvement needed |
| | - |
| GSS-52.05 Gunsmith Machining 5 | No improvement needed |
| GSS-52.06 Gunsmith Machining 6 | No improvement needed |
| GSS-52B Firearms Training | No improvement needed |
| GSS-52BR Firearms Training Refresher | No improvement needed |
| GSS-54.05 Hard/Temp Steels | No improvement needed |
| GSS-55.04 Stock Refinish and Repair | No improvement needed |
| GSS-56.01 Headspace | No improvement needed |
| GSS-56.03 Bolt Action Barrel Fitting | No improvement needed |
| GSS-56.04 Barrel Contouring | No improvement needed |
| GSS-57.01 Bolt Action Breech | No improvement needed |
| GSS-57.02 Action Blueprinting | No improvement needed |
| GSS-57.03 Action and Bolt Modifications | No improvement needed |
| GSS-57.06 Truing Exterior of Action | No improvement needed |
| GSS-57.08 Bottom Metal Modifications | No improvement needed |
| GSS-57.15 Bolt Action Rifle Feeding | No improvement needed |
| GSS-58.02 Pres & Pil Bedding | No improvement needed |
| GSS-59.02 Metal Preparation | No improvement needed |
| GSS-59.03 Parkerizing | No improvement needed |
| GSS-59.04 Color Case Hardening | No improvement needed |
| GSS-59.05 Rust Bluing | No improvement needed |
| GSS-59.07 Niter Bluing and Heat Coloring | No improvement needed |
| GSS-59.09 Alternative Metal Finishes | No improvement needed |
| GSS-60.01 Dfr Recoil Auto Sg | No improvement needed |
| GSS-60.02 Dfr Gas Operated Auto Shotguns | No improvement needed |
| GSS-60.04 Dfr Pump Shotguns | No improvement needed |
| GSS-61.01 Dfr Single Action Revolvers | No improvement needed |
| GSS-61.02 Dfr Smith & Wesson Revolvers | No improvement needed |
| GSS-61.03 DFR Colt & Ruger Revolvers | No improvement needed |
| GSS-62.03 Misfire Correction | No improvement needed |
| GSS-62.04 Firing Pin Holes | No improvement needed |
| GSS-63.01 Single Triggers | No improvement needed |
| GSS-63.02 Ejectors | No improvement needed |
| GSS-63.03 Double Gun Locks | No improvement needed |
| GSS-63.05 Hinge Pin/Headspace | No improvement needed |
| GSS-64.01 Stock Fit and Bed | No improvement needed |
| GSS-66.01 Rifle Barrel Fit. | No improvement needed |
| GSS-66.02 Revolver Barrel Fit | No improvement needed |
| GSS-66.03 .22 Barrel Fitting | No improvement needed |
| GSS-67.01 Blowback Principle | No improvement needed |
| GSS-68.01 Dfr Locked Breech | No improvement needed |
| GSS-68.02 Locked Breech Dbl A | No improvement needed |
| GSS-68.03 Dfr Blowback Auto Pistols | No improvement needed |
| GSS-69.01 Dfr Auto Rifles | |
| GSS-69.02 Drf Pump Rifles | No improvement needed |
| | No improvement needed |

| GSS-69.03 Dfr Lever Action Rifles | No improvement needed |
|--|-----------------------|
| GSS-69.04 Non-Bolt Action Feeding | No improvement needed |
| GSS-70 Checkering | No improvement needed |
| GSS-70.01 Dfa Triggers 1 | No improvement needed |
| GSS-70.02 Dfa Triggers 2 | No improvement needed |
| GSS-71.01 Dfr .22 Auto's | No improvement needed |
| GSS-71.02 Dfr Bolt Action .22's | No improvement needed |
| GSS-71.03 Dfr Pump and Lever | No improvement needed |
| GSS-71.04 Dfr Marlin Model 39 | No improvement needed |
| GSS-72.01 Metallic Cartridge Reloading | No improvement needed |
| GSS-73.02 Spring Making | No improvement needed |
| GSS-75.02 Firearm Laws & Regulations | No improvement needed |
| GSS-77 Acc. M1-M1A For Comp | No improvement needed |
| GSS-79 Basic Cors Armorer | No improvement needed |
| GSS-82 General Gunsmithing | No improvement needed |
| GSS-83 General Gunsmithing-Advanced | No improvement needed |
| GSS-87 L.E.A.S./D & R Autopistol | No improvement needed |
| GSS-88 L.E.A.S./D & R Autopistol | No improvement needed |
| GSS-89 L.E.A.S./D & R Full Autos I | No improvement needed |
| GSS-93 L.E.A.S./Design & Repair | No improvement needed |
| GSS-95 Law Enforce Arms | No improvement needed |
| GSS-98.03 Cow Act Shoot Short | No improvement needed |
| GSS-98.05 Design, Func Rep Sw | No improvement needed |
| GSS-98.06 L.E.A.S./Dfr Long Guns | No improvement needed |
| GSS-98.08 Custom Built 1911 | No improvement needed |
| GSS-98.09 Color Case Hardening | No improvement needed |
| GSS-98.12 Belts and Holsters | No improvement needed |
| GSS-98.21 Hand Guns Special Projects | No improvement needed |
| GSS-98.22 Dfr Long Guns Special Projects | No improvement needed |
| GSS-98.23 Machine Shop Special Projects | No improvement needed |
| GSS-98.24 Stockmaking Special Projects | No improvement needed |

| Program Student Learning Outcomes | Summarize Findings |
|--------------------------------------|---------------------------------|
| PSLO 1 | No improvement needed |
| PSLO 2 | No improvement needed |
| PSLO 3 | No improvement needed |
| PSLO 4 | No improvement needed |
| PSLO 5 | No improvement needed |
| | Recommendations for Improvement |
| | |
| | |
| | |

Enrollment Management

| Enrollment Management | 2018-19 | 2019-20 | 2020-21 | 2021-22 |
|---|---------|---------|---------|---------|
| Gunsmithing Census Enrollment Overall | 1,071 | 700 | 638 | 708 |
| Lassen College Census Enrollment | 15,117 | 14,320 | 12,244 | 11,847 |
| Gunsmithing Full-Time Equivalent Students (FTES) | 84.6 | 56.9 | 48.2 | 57.9 |
| Lassen College Full-Time Equivalent Students (FTES) | 1,648 | 1,561 | 1,340 | 1,269 |
| Gunsmithing Number of Sections | 89 | 71 | 81 | 87 |
| Lassen College Number of Sections | 883 | 851 | 758 | 818 |
| Gunsmithing Fill Rate | 52% | 43% | 37% | 34% |
| Lassen College Fill Rate | 55% | 54% | 55% | 51% |
| Gunsmithing Full-Time Equivalent Faculty (FTEF) | 5.7 | 4.4 | 5.0 | 5.8 |
| Lassen College Full-Time Equivalent Faculty (FTEF) | 79.8 | 77.7 | 70.6 | 74.2 |
| Gunsmithing FTES/FTEF | 14.8 | 12.9 | 9.6 | 9.9 |
| Lassen College FTES/FTEF | 20.7 | 20.1 | 19 | 17.1 |



Based on your review of the data trends above (e.g., enrollment, FTES, FTES/FTEF, fill rate) please provide an analysis of efficiency gaps and accomplishments.

Based on the data provided, the gunsmithing program has been operating about half capacity and the program has seen a decrease in enrollment mainly due to Covid-19 pandemic. We can see that since the pandemic the enrollment numbers are on the rise. The data listed includes the NRA summer courses and we have had a decline in enrollment in that program due to Covid-19 as well as the lack of advertising. The data listed does not capture all enrollments the gunsmithing program brings in i.e. the welding courses are not listed in the data for the gunsmithing program. The welding courses are specific to the gunsmithing program and only students enrolled into the gunsmithing program are allowed to take these courses. The degree/certificate program is under revitalization to improve enrolment. With the changes to the format to the gunsmithing program the enrollment number will be substantially less. Currently one student will be enrolled in an average of 18 courses per semester and counted for each course. With the new format one student will be enrolled in 5 courses per semester and counted for each course. With full classes the enrollments compared as follows;

- Current program; 22 students X 18 classes per semester = 396 enrollments per class per semester
- Proposed program; 22 students X 5 classes per semester = 110 enrollments per class per semester

These changes will also show a decrease in FTES the program will generate. With the decrease in enrollments and decrease in contact hours this in turn decreases FTES the program can earn. The current program vs. proposed program FTES generation per semester,

Current program with 22 students enrolled = 14,080 contact hours = 26.8 FTES

Proposed program with 22 students enrolled = 9,504 contact hours = 18.1 FTES

The gunsmithing program staff will work diligently to fill the classes through advertising and promoting the program. These changes are mandated by the administration and the revitalization committee. The decrease in contact hours as well as enrollments are to facilitate the students having more time to complete the general education requirements for the degree.

Curriculum

Degrees and/or Certificates

| Degree or Certificate Title | Award Type (AA, AS, AAT, AST, etc.) | Units | Term of Last Revision |
|--|--|-------|-----------------------|
| Associate in Science Degree in Firearms Repair | A.S. | 60 | 2021 |
| Associate in Science Degree in General Gunsmithing | A.S. | 60 | 2021 |
| Certificate of Achievement in Firearms Repair | COA | 16 | 2021 |
| Certificate of Achievement in General Gunsmithing | COA | 16 | 2021 |
| Certificate of Accomplishment in Gunsmith Machinist and Metal Finishing | СОА | 16 | 2021 |
| Certificate of Accomplishment in Long Guns | COA | 16 | 2021 |
| Certificate of Accomplishment in Pistolsmith | COA | 16 | 2021 |
| Certificate of Accomplishment in Riflesmith | COA | 16 | 2021 |

Provide a narrative of revisions made.

- The program in under revitalization at this time. The updated program will offer
- A.S. firearms repair
- Certificate of Achievement Gunsmith machinist and metal finisher
- Certificate of Achievement firearms repair

The revitalization and changes to the program are as follows

- The gunsmithig program did not take in students for the 2022-23 school year This break was to give the two full time employees' time to rewrite/update curriculum and finish out the current students in the current format.
- Change in format to change from the one/two week classes to semester length classes
- Reduce the hours the students are in gunsmithing classes so the student will have time to complete the general education requirement for obtain and Associate degree in a two year period
- Update curriculum to expand on some firearm platforms including inertia operated shotguns(Benelli),Glock auto pistols and AR 15 style rifles including the standard operating system(direct gas impingement) and piston operating system.

The revitalization and changes are only being made to the two year degree/certificate program. There are no changes at this time to the NRA summer classes.

Courses

Summarize curriculum revisions, new course adoptions, and/or course deletions r since the last program review. Describe the program accomplishments and/or changes (e.g., major revisions, additions, etc.). All courses need to be submitted to the Curriculum Committee for revision at least once every five years.

Whether changes to a course outline are necessary or not, a Revision to Existing Course Form for each course must be completed and submitted to the Curriculum/Academic Standards Committee for action.

If all the courses in the certificate or degree are reviewed at one time, a single Program revision form can be used. If there are changes made to a course, the changes must be noted on the revision form. When reviewing a single course and changes are necessary, indicate the revisions on the form. Where no changes are necessary, simply indicate on the Revision Form that "the course has been reviewed as part of the program review and no changes are necessary." All program certificates, degrees, PSLO maps, and SLO maps are also required to be reviewed and updated if necessary. PSLO maps require a program revision form and course SLO maps require a course revision form. If all maps are reviewed at the same time, a single program revision form can be used. Advising plans also need to be reviewed and updated. A program revision form is used to review and update the advising plan if necessary. Revision forms will be retained in the Instructional Office with the Curriculum agenda packets.

Following the Curriculum/Academic Standards Committee action on all submitted Revision to Existing Course Forms, a summary Instructional Program Curriculum Review Form will be completed by the Curriculum/Academic Standards Subcommittee Chair and given to the program faculty for inclusion in the program review.

The signed Instructional Program Curriculum Review Form is to be included with your completed program review documents for all certificates and degrees.

| Course | Last Offered | Term of Last Revision |
|--------------------------------------|--------------|-----------------------|
| GSS-112 Machine Shop For Gunsmiths | 2022SU | 2021 |
| GSS-114 Basic Rifle Barreling | 2022SU | 2021 |
| GSS-117 GTAW For Gunsmiths | 2022SU | 2021 |
| GSS-119 Advanced Rifle Barreling | 2022SU | 2021 |
| GSS-134 Caustic Bluing | 2022SU | 2021 |
| GSS-135 Parkerizing | 2022SU | 2021 |
| GSS-147 Assemble/Tung Gas Rif | 2019SU | 2021 |
| GSS-49 Gunsmithing Work Experience | 2022SU | 2021 |
| GSS-50.01 Recoil Pad Install | 2021FA | 2021 |
| GSS-50.03 Open Sight Install | 2021FA | 2021 |
| GSS-51.01 Stock Inletting | 2022SP | 2021 |
| GSS-51.03 Stock Shaping | 2022SP | 2021 |
| GSS-51.05 Glass Bedding | 2022SP | 2021 |
| GSS-51.06 Wood Stock Finishing | 2022SP | 2021 |
| GSS-52.01 Gunsmith Machining I | 2021FA | 2021 |
| GSS-52.02 Gunsmith Machining 2 | 2021FA | 2021 |
| GSS-52.03 Gunsmith Machining 3 | 2021FA | 2021 |
| GSS-52.04 Gunsmith Machining 4 | 2021FA | 2021 |
| GSS-52.05 Gunsmith Machining 5 | 2021FA | 2021 |
| GSS-52.06 Gunsmith Machining 6 | 2021FA | 2021 |
| GSS-52B Firearms Training | N/A | 2021 |
| GSS-52BR Firearms Training Refresher | N/A | 2021 |

| GSS-54.05 Hard/Temp Steels | 2021FA | 2021 |
|--|------------------|------|
| GSS-55.04 Stock Refinish and Repair | 2021FA | 2021 |
| GSS-56.01 Headspace | 20225P | 2021 |
| GSS-56.03 Bolt Action Barrel Fitting | 20225F | 2021 |
| GSS-56.04 Barrel Contouring | 20225F | 2021 |
| GSS-57.01 Bolt Action Breech | 20225F | 2021 |
| GSS-57.02 Action Blueprinting | 20225F | 2021 |
| GSS-57.02 Action and Bolt Modifications | 202251 2022SP | 2021 |
| GSS-57.06 Truing Exterior of Action | 20223P | 2021 |
| GSS-57.08 Bottom Metal Modifications | 20223P | 2021 |
| GSS-57.15 Bolt Action Rifle Feeding | 20223P | 2021 |
| GSS-58.02 Pres & Pil Bedding | 20223P | 2021 |
| | 20223F | 2021 |
| GSS-59.02 Metal Preparation | 2021FA | 2021 |
| GSS-59.03 Parkerizing | 2021FA | 2021 |
| GSS-59.04 Color Case Hardening | 2021FA 2022FA | 2021 |
| GSS-59.05 Rust Bluing | 2022FA 2022FA | 2021 |
| GSS-59.07 Niter Bluing and Heat Coloring | | |
| GSS-59.09 Alternative Metal Finishes | 2021FA | 2021 |
| GSS-60.01 Dfr Recoil Auto Sg | 2021FA | 2021 |
| GSS-60.02 Dfr Gas Operated Auto Shotguns | 2021FA | 2021 |
| GSS-60.04 Dfr Pump Shotguns | 2021FA | 2021 |
| GSS-61.01 Dfr Single Action Revolvers | 2021FA | 2021 |
| GSS-61.02 Dfr Smith & Wesson Revolvers | 2021FA | 2021 |
| GSS-61.03 DFR Colt & Ruger Revolvers | 2021FA | 2021 |
| GSS-62.03 Misfire Correction | 2022SP | 2021 |
| GSS-62.04 Firing Pin Holes | 2021SP | 2021 |
| GSS-63.01 Single Triggers | 2022SP | 2021 |
| GSS-63.02 Ejectors | 2022SP | 2021 |
| GSS-63.03 Double Gun Locks | 2022SP | 2021 |
| GSS-63.05 Hinge Pin/Headspace | 2022SP | 2021 |
| GSS-64.01 Stock Fit and Bed | 2022SP | 2021 |
| GSS-66.01 Rifle Barrel Fit. | 2022SP | 2021 |
| GSS-66.02 Revolver Barrel Fit | 2021FA | 2021 |
| GSS-66.03 .22 Barrel Fitting | 2022SP | 2021 |
| GSS-67.01 Blowback Principle | 2021FA | 2021 |
| GSS-68.01 Dfr Locked Breech | 2021FA | 2021 |
| GSS-68.02 Locked Breech Dbl A | 2021FA | 2021 |
| GSS-68.03 Dfr Blowback Auto Pistols | 2021FA | 2021 |
| GSS-69.01 Dfr Auto Rifles | 2022SP | 2021 |
| GSS-69.02 Drf Pump Rifles | 2022SP | 2021 |
| GSS-69.03 Dfr Lever Action Rifles | 2022SP | 2021 |
| GSS-69.04 Non-Bolt Action Feeding | 2021SP | 2021 |
| GSS-70 Checkering | 2021SU | 2021 |
| GSS-70.01 Dfa Triggers 1 | 2021FA | 2021 |
| GSS-70.02 Dfa Triggers 2 | 2021FA | 2021 |
| GSS-71.01 Dfr .22 Auto's | 2022SP | 2021 |
| GSS-71.02 Dfr Bolt Action .22's | 2022SP | 2021 |
| GSS-71.03 Dfr Pump and Lever | 2022SP | 2021 |

| GSS-71.04 Dfr Marlin Model 39 | 2022SP | 2021 |
|--|--------|------|
| GSS-72.01 Metallic Cartridge Reloading | 2022SP | 2021 |
| GSS-73.02 Spring Making | 2022FA | 2021 |
| GSS-75.02 Firearm Laws & Regulations | 2022SP | 2021 |
| GSS-77 Acc M1-M1A For Comp | 2022SU | 2021 |
| GSS-79 Basic Cors Armorer | 2022SU | 2021 |
| GSS-82 General Gunsmithing | 2022SU | 2021 |
| GSS-83 General Gunsmithing-Advanced | 2021SU | 2021 |
| GSS-87 L.E.A.S./D & R Autopistol | 2022SU | 2021 |
| GSS-88 L.E.A.S./D & R Autopistol | N/A | 2021 |
| GSS-89 L.E.A.S./D & R Full Autos I | 2022SU | 2021 |
| GSS-93 L.E.A.S./Design & Repair | 2022SU | 2021 |
| GSS-95 Law Enforce Arms | 2022SU | 2021 |
| GSS-98.03 Cow Act Shoot Short | N/A | 2021 |
| GSS-98.05 Design, Func Rep Sw | N/A | 2021 |
| GSS-98.06 L.E.A.S./Dfr Long Guns | 2021SU | 2021 |
| GSS-98.08 Custom Built 1911 | 2022SU | 2021 |
| GSS-98.09 Color Case Hardening | 2021SU | 2021 |
| GSS-98.12 Belts and Holsters | 2022SU | 2021 |
| GSS-98.21 Hand Guns Special Projects | 2022SP | 2021 |
| GSS-98.22 Dfr Long Guns Special Projects | 2022SP | 2021 |
| GSS-98.23 Machine Shop Special Projects | 2022SP | 2021 |
| GSS-98.24 Stockmaking Special Projects | 2022SP | 2021 |

Provide a narrative of revisions made.

The program is in revitalization at this time. The changes are as follows:

- The gunsmithing program did not take in students for the 2022-23 school year
- This break was to give the two full time employees' time to rewrite/update curriculum and finish out the current students in the current format.
- Change in format to change from the one/two week classes to semester length classes
- Reduce the hours the students are in gunsmithing classes so the student will have time to complete the general education requirement for obtain and Associate degree in a two year period
- Update curriculum to expand on some firearm platforms including inertia operated shotguns(Benelli),Glock auto pistols and AR 15 style rifles including the standard operating system(direct gas impingement) and piston operating system.

The revitalization and changes are only being made to the two year degree/certificate program. There are no changes at this time to the NRA summer classes.

Articulation/Integration of Curriculum

• Attach a tabular comparison of Lassen Community College courses articulating with UC and CSU, Indicating courses with approved C-ID designations as applicable (Obtain copies of Articulation Agreements from the Transfer Center / Articulation Officer) • Provide a narrative reviewing the Lassen Community College courses and courses at four-year institutions for course alignment. (e.g., two courses at Lassen needed to articulate with one course at UC) and the unit requirements for Lassen Community College courses as compared to four-year institutions.

Lassen Community College Gunsmithing program is a unique program that is the only campus based Gunsmithing School that offers Design, Function and Repair classes in America. Our classes do not transfer to the UC or CSU level because none of the four-year institutions offer a gunsmithing program.

External Compliance

Provide a summary of any compliance regulations (e.g., accreditation, accessibility), actions taken, and gaps identified.

The gunsmithing program is currently next to the child day care and the student services office. The Child Day care is leased to an outside agency and with the large amount of traffic in the area is a concern. At this time the Gunsmithing program is in compliance with federal, state and local laws. If the laws are to change in the future the Gunsmithing program will not be able to operate at its current location. The LCC facilities director is currently looking into another space for the gunsmithing program. The gunsmithing advisory committee has not given any input on this issue at this time. This will be brought to their attention at the next meeting. The facilities director looking at moving the gunsmithing program in the next 5 years. This move is to facilitate student services being in one location. This proposed move would move us away from the child day care and alleviate most of these issues.

External Analysis: Job Market Assessment

Provide a summary of Industry Advisory Board suggestions and market data. The market data will be populated for Career Technical Education programs only

The advisory committee minuets are available in the office of instruction. At this time there has been not many recommendations from our advisory board due to they have had a lot of information to review and vote on with the program going through revitalization.

Program Planning and Communication Strategies

Describe the communication methods and interaction strategies used by your program faculty and administrators to discuss program-level planning, curriculum, SLOs, PSLOs, equity, student achievement, and institutional performance data.

The communication that has happened between program faculty and administration is by zoom and in person. The program planning and strategies has been discussed and plans have been made, during the revitalization process.

Academic Planning Analysis Summary

Summarize the key findings from the program analysis and outline opportunities for change.

The gunsmithing program is being revitalized at this time there is nothing to analyzed and we are making

changes to update the program.

Section 2: Human Resource Planning

Workload and Staffing Assessment

| Year | F/T Faculty | P/T Faculty |
|---------------|-------------|-------------|
| Previous Year | 2 | 7 |
| Current Year | 2 | 7 |
| Next 2 Years | 2 | 7 |

Provide a narrative that describes the program's faculty staffing trends and develop a projection for the two years. Discuss the extent to which your current faculty staffing structure meets or does not meet your program's needs and/or initiatives. Please describe what strategies will be used to diversify your staffing (e.g., education, expertise/skillsets, areas of interest, demographics).

The Number of full and part time faculty is steady. With full time faculty working at max capacity, it is difficult to expand the program. Lassen College is in desperate need of a director for the gunsmithing program to survive and grow. The gunsmithing program is the only program on campus that runs 12 months and does not have a director.

Lassen College has a signed contract with the NRA that states Lassen College will maintain a director or coordinator to oversee the NRA Gunsmithing program. At this time Jonathan Herring GS department ISS is the NRA coordinator.

Due to the work load of the current GSS staff full time and part time, the program is in need of a third full time instructor. The GSS program used to have three full time employees but due to staffing changes it was reduced to two. It is hard to maintain/improve the GSS program with the full-time instructors teaching at the current work load. Thus, the program needs a director and 2 full time instructors. Within the next couple years one of the full-time instructors is looking at retiring so it would be beneficial to hire another instructor so they can be up to speed when the senior instructor retires.

With a director and 2 full time instructors and the spread-out work load the faculty would have ample time to take care of the duties to maintain/improve/advance the Gunsmithing program. At the time that the gunsmithing program had a waitlist to get into the program and there were 600-700 summer students there were 3 fulltime faculty. With the help of another full-time faculty, we could increase enrollment and offer more classes that would in turn bring in more FTES.

The GSS program needs a secretary to help with the clerical duties that are necessary to be in compliance in the industry.

Professional Development

Provide a description and associated outcomes related to the program's target professional development participation over since the last program review. Discuss the current professional development/training need(s) of your program, and why this need(s) exists. If you have specific trainings you want to request, please include those details.

Since the last review we have been in the revitalization process. The only professional development that has been done is to update the program is the program staff are getting online training for the CNC machine so that we can include programing and machine use into the updated program after we finish the revitalization process. In the spring 2023 we hope to attend gun shows as well as the SHOT show to attend trainings and stay current with the industry.

Section 3: Infrastructure Planning

Facilities

- Describe and evaluate the Lassen Community College facilities available to the program.
- Describe and evaluate additional facilities utilized off-campus by the program
- Describe any facilities needs identified internal or external analysis
- Justify any proposed modifications or additions to existing facilities that would better serve the program planned for the program review cycle.

The classroom for the Gunsmithing Program is located in the Vocational-Technical building, room VT-104, along with a program office located in VT-110. The remainder of the Program is located in the GS building, which is immediately adjacent to the Vo-Tech building. The GS building includes

• Work benches, grinders, welders, saws, lathes, milling machines, caustic bluing equipment, sandblasting equipment, and a wide range of small tooling. The major equipment is outlined below: see appendix A

Evaluation of the facilities available to the Gunsmithing Department:

- The current facility is limited in space for machinery and equipment
- The current facility is limited in space for student activity and storage of student and program materials resulting in some safety concerns.
- The current facility has a realistic operational capacity of approximately 50 students, limited by the availability of machines/equipment in the machine shop
- The Child Development Center was constructed in close proximity to the facility, raising concerns
- Student Services in the Vo-Tech building is in close proximity to the gunsmithing facility
- VT-105, formerly a classroom available to the Gunsmithing Department, has become Counseling offices, forcing a make-shift classroom to be arranged in the Gunsmithing Shop
- VT-101, one of the class rooms currently used by the gunsmithing department, is being changed into offices for student services.

- The gunsmithing department has asked for more classrooms and we have been told that there is no room for more classrooms facilities has to make room for student services, so we will be losing another class room. At this time we will only have one class room available for our summer program 2023. In the past we have had 5 class rooms in use at one time.
- Availability of classroom space during the degree/certificate and NRA Summer Program keeps getting smaller.
- The former Facilities director has taken away what was used for the gunsmithing armory Vt-102. Forcing LCC to purchase gun safes and store them in classroom VT108. This cut down the size of the classroom and as a result have to cut down class size.
- Due to Covid-19 pandemic LCC made the campus i.e., dorms and gym, overflow for the hospital if need be. In turn the main electrical panel in the gunsmithing dept. machine shop has been upgraded and made so there could be generators hooked to the panel. With this the former facilities director built a room around the panel in the machine shop that makes more of our area unusable and cuts down the square footage of the shop. The former Facilities director also removed equipment out of the machine shop that we currently used to make room for this structure. This was done with no consideration to the gunsmithing program staff.
- LCC gunsmithing dept. had a fenced area on the east side of the machine shop. The fence and the area were removed including part of the lawn to repair a drainage line. The drainage line is still broken after 5years and the fence has not been replaced. We stored raw materials, oxygen and acetylene bottles and other supplies that didn't need to be inside in this area. The fenced area was locked and secure. Now we must store these items in the machine shop/lab area and they clutter the shop and is a safety concern. This area is also the first place all students go on campus to get to admissions and records. This is unsightly and unprofessional looking.
- Since the last review, and due to the program being revitalized, the program has received a 40'shipping container for storage and at this time we are waiting to get power hooked up to it so we can move the equipment that is used once a year and clutters the shop into it.
- With getting the shipping container for storage we will be able to move the spare parts out of the storage room in the lab and the room will become a painting area for spraying firearm finishes. We have ordered a paint booth but have not received it at this time. We have also ordered two commercial ovens for curing the firearm finishes and also have not received them at this time.

Evaluation of the major equipment utilized by Gunsmithing Department shows some of the worn and outdated equipment has been replaced using grant moneys.

Equipment

• Describe and evaluate equipment and equipment support provided for instruction and instructional support

The classroom for the Gunsmithing Program is located in the Vocational-Technical building, room VT-104, along with a program office located in VT-110. The remainder of the Program is located in the GS building, which is immediately adjacent to the Vo-Tech building. The GS

building includes

- Work benches, grinders, welders, saws, lathes, milling machines, caustic bluing equipment, sandblasting equipment, and a wide range of small tooling. The major equipment is outlined below:
- 19 Metal turning lathes
 - a. 3 lathes less than 5 years old
 - b. 7 lathes 5 to 10 years old

- c. 9 lathes unknown age (two are WWII vintage)
- d. 1 lathes are non-operational
- 6 Milling machines
 - a. 2 mills less than 5 years old
 - b. 1 CNC mill w/attachments, approx. 15 years old
 - 2 Welders, Tungsten Inert Gas (TIG)
 - a. Both approx. 15 years old
- Dell Computer to Run CNC programs Less than 1 year old
 - a. Paton software
- 14 Browning Gun safes, 2years old
- 1 Finish curing oven, built by students
- Savage Range systems snail trap, under 5 years old

The majority of the worn and obsolete equipment has been replaced using grant moneys.

Due to a limited budget, the GSS program does not have any equipment maintenance/service agreements. The Gunsmithing program could use a maintenance/service program for the equipment. A maintenance/service program would extend the life of our equipment

Technology

- Describe and evaluate technology and technology support provided for instruction and instructional support.
- Justify any proposed modifications or additions to existing technology that would better serve the program planned for the next four years.

Since the last review the gunsmithing program has not received any new technology. The IT department has provided support that we have not received in the past. The Gunsmihting program would like to include laser engraving. Laser engraving has become an advancement in the industry not only for engraving but for removing broken taps and cutting material that cannot be done on conventional machine equipment.

Section Four: Program Planning

Progress update on previous action plans

Since the last review, the gunsmithing program has been in the revitalization process. The changes that are in progress right now are, the gunsmithing program has received the 40' shipping container that was approved in approximately 2007, with receiving the shipping container for storage the gunsmithing department will be able to make room for a spray booth within the shop. The spray booth and new ovens have been ordered but not received at the time this is written. At this time the shipping container does not have power to it there for we cannot start using the new equipment.

The plan at this time is, as soon as the chancellor's office approves the updated program we will start advertising and promoting the program. Lassen college administration has moneys set aside to advertise and promote.

| Action Plan | Progress Detail | Outcomes |
|-------------|-----------------|----------|
| N/A | | |
| | | |
| | | |

| Strengths | The only program in CA offering courses in this subject |
|---------------|---|
| | large LE following for armorer classes |
| Weaknesses | Motivating students following Covid-19 where individuals are not self-dependent |
| | No program director that is faculty |
| | Advertising |
| Opportunities | Community service classes |
| | Bring in more industry experts for wider knowledge base |
| | Bachelor's degree in gunsmithing |
| Threats | Changes in federal and state laws |
| | Political climate |

Strengths, Weaknesses, Opportunities, Threats (SWOT) Analysis

Program Plan

Complete SWOT analysis

Develop a program action plan based on the findings of the SWOT Analysis. The plan should specify should aligns with one or more College Goals. SLO maps may be utilized to help show the connection.

SWOT ; The Lassen College Gunsmithing program exists as a unique entity and is the only Gunsmithing not only in California but on the west coast. The Gunsmithing program has existed within Lassen College for 77 years. The Gunsmithing program trains law enforcement, military as well as the general and specialized gunsmith. The Gunsmithing program also offers extensive training for the hobbyist to the advanced gunsmith or armorer to learn or maintain their skill set. The current program has offered students that have a unique skill set that employers not only in the Gunsmithing industry look for.

The Gunsmithing program has seen that students are harder to motivate coming out of the Covid-19 pandemic. The Gunsmithing program is in desperate need of a director for the Gunsmithing program as well as the NRA summer program. This position must be a faculty position. There has been no advertising for the Gunsmithing program for many years. Now that the program is being revitalized there will be extensive advertising when the chancellor's office approves the new degrees and certificates. This will include online, print and attending gun and trade shows.

The Gunsmithing program could offer community service classes that would offer the student a class that they could take as many times as they want. These classes would not be subject to the states repeatability restrictions. With offering community service classes the Gunsmithing program would be able to bring in more industry experts that currently cannot pass the minimum qualification. There are people in the industry that have years of experience and are an expert but cannot pass the minimum qualification requirements. The Gunsmithing program could offer a bachelor's degree in Gunsmithing. This would offer the student a degree that is not offered anywhere else in the country. After the degree/ certificate program get back on its feet we will look into writing some community service classes.

At this time the Gunsmithing program is complying with federal and state laws pertaining to having firearms on a college campus and next to a day care center. If the laws, federal and/or state change this could make it to where the Gunsmithing program would have to be moved from its current location and possibly off of campus to comply with the laws. The Gunsmithing program is looking at moving locations in the next 5 years. At this time we are looking at options for a new facility.

The program plan is as follows.

Recover from the revitalization process.

Start the degree/certificate program back up fall 2023 Keep advertising fall of 2023 for fall of 2024 and summer NRA courses

- How do the action plans align with the mission of the college?
- What strategic goals do the action plans support?
- What ISLOs do the action plans support?
- What specific evidence (e.g., SLOs, data) support the action plans?
- Based on the action plans what resources are needed?
- What are the expected outcomes of the action plans?
- What is the total cost of bringing the action plan to life?

Lassen Community College Status of Curriculum

| Action Plan | Supporting Evidence | Expected Outcome | Resource(s) to Achieve the Action Plan | Resource Category | Estimated Cost | Expense Type | Priority Ranking |
|--|------------------------|--------------------------------|--|----------------------|-------------------|-----------------|---------------------|
| Increase supply budget | Course Success rate | Increase student success | N/A | Equipment | \$15,000 | annually | 5 |
| Increase equipment repair budget | Course success rate | Increase student success | N/A | Equipment | \$3000 | annually | 4 |
| Establish equipment service agreements | Course success rate | Increase student success | N/A | Equipment | Unknown | Annually | 3 |
| Establish recruiting and advertising program | Increase enrollment | Increase enrollment | N/A | advertising | \$5000 | Annually | 2 |
| AC in classrooms and lab | Increase enrollment | Increase student success | N/A | Facilities | unknown | One time | 1 |

| Lassen Community | | | | | |
|---------------------------|---|---|--------------------------------|--|--|
| Course Name | Curriculum Committee Status Review Completed | s of Eurriculum Committee Review Not Completed | Course SLO mapping reviewed | | |
| GSS 50.01 Recoil | 11/15/2022 | - | 02/16/2021 | | |
| Pad and Sling | | | | | |
| Swivel Installation | | | | | |
| GSS 50.03 Open | 11/15/2022 | | 02/16/2021 | | |
| and Optical Sight | | | | | |
| Installation | | | | | |
| GSS 51.01- Stock | 11/15/2022 | | 02/16/2021 | | |
| Inletting | | | | | |
| GSS 51.03 Stock | 11/15/2022 | | 02/16/2021 | | |
| Shaping | | | | | |
| GSS 51.05- Glass | 11/15/2022 | | 02/16/2021 | | |
| Bedding for | | | | | |
| Strength and | | | | | |
| Accuracy | | | | | |
| GSS 51.06 -Wood | 11/15/2022 | | 02/16/2021 | | |
| Stock Finishing | | | | | |
| GSS 52.01- | 11/15/2022 | | 02/16/2021 | | |
| Gunsmith | | | | | |
| Machining 1 | | | | | |
| GSS 52.02- | 11/15/2022 | | 02/16/2021 | | |
| Gunsmith | | | | | |
| Machining 2 | | | | | |
| GSS 52.03- | 11/15/2022 | | 02/16/2021 | | |
| Gunsmith | | | | | |
| Machining 3 | | | | | |
| GSS 52.04- | 11/15/2022 | | 02/16/2021 | | |
| Gunsmith | | | | | |
| Machining 4 | 11/15/2022 | | 00/1/00001 | | |
| GSS 52.05- Gunsmith | 11/15/2022 | | 02/16/2021 | | |
| | | | | | |
| Machining 5 GSS 52.06- | 11/15/2022 | | 00/16/2021 | | |
| GSS 52.00- Gunsmith | 11/15/2022 | | 02/16/2021 | | |
| Machining 6 | | | | | |
| GSS 52B Firearms | 11/15/2022 | | 02/16/2021 | | |
| Training | 11/15/2022 | | 02/16/2021 | | |
| GSS 52BR | 11/15/2022 | | 02/16/2021 | | |
| Firearms | 11/13/2022 | | 02/10/2021 | | |
| Training | | | | | |
| Refresher | | | | | |
| GSS 54.05 - | 11/15/2022 | | 02/16/2021 | | |
| Hardening | 11/13/2022 | | 02/10/2021 | | |
| & Tempering of | | | | | |
| Carbon Steels | | | | | |
| | | | 1 | | |

| Lassen Community | | | |
|------------------------------|--|--|--|
| College Status of Curriculum | | | |

| | | Conege Stata | | |
|--------------------------|-----------|--------------|---|------------|
| GSS 55.04- Stock | 1 | 1/15/2022 | | 02/16/2021 |
| and Refinish & | | | | |
| Repair | | | | |
| GSS 56.01 - Headspace | 1 | 1/15/2022 | | 02/16/2021 |
| GSS 56.03 - Bolt | 1 | 1/15/2022 | | 02/16/2021 |
| Action Barrel Fitting | | | _ | |
| GSS 56.04 - Barrel Co | ontouring | 11/15/2022 | | 02/16/2021 |
| | | | | |

| GSS 57.01 Bolt Action | 11/15/2022 | 02/16/2021 |
|-------------------------|--|------------|
| Breeching & Headspace | | |
| GSS 57.02-Action | 11/15/2022 | 02/16/2021 |
| Blueprinting | Lassen Community | |
| GSS 57.03 -Action & | ^{11/15/2} ²⁰ lege Status of Curriculum | 02/16/2021 |
| Bolt Modifications | College Status of Curriculum | |
| GSS 57.06-Truing | 11/15/2022 | 02/16/2021 |
| Exterior of Action | | 02/10/2021 |
| GSS 57.08 - Bottom | 11/15/2022 | 02/16/2021 |
| Metal Modification | 11/15/2022 | 02/10/2021 |
| GSS 57.15 -Bolt | 11/15/2022 | 02/16/2021 |
| Action Rifle Feeding | 11/13/2022 | 02/10/2021 |
| GSS 58.02 - Pressure | 11/15/2022 | 02/16/2021 |
| | 11/13/2022 | 02/16/2021 |
| Bedding & Pillar | | |
| Bedding | 11/15/2022 | 02/16/2021 |
| GSS 59.02-Metal | 11/15/2022 | 02/16/2021 |
| Prep. For Refinishing & | | |
| Caustic Bluing | | |
| GSS 59.03 - | 11/15/2022 | 02/16/2021 |
| Parkerizing | | |
| GSS 59.04 - Color | 11/15/2022 | 02/16/2021 |
| Case Hardening | | |
| GSS 59.05 -Rust | 11/15/2022 | 02/16/2021 |
| Bluing | | |
| GSS 59.07 - Niter | 11/15/2022 | 02/16/2021 |
| Bluing & Heat Coloring | | |
| GSS 59.09- | 11/15/2022 | 02/16/2021 |
| Alternative Metal | | |
| Finishes | | |
| GSS 60.01 - DFR | 11/15/2022 | 02/16/2021 |
| Recoil Operated Auto | | |
| Shotguns | | |
| GSS 60.02 - DFR Gas | 11/15/2022 | 02/16/2021 |
| Operated Auto | | |
| Shotguns | | |
| GSS 60.04 - DFR | 11/15/2022 | 02/16/2021 |
| Pump Shotguns | 11/15/2022 | 02/10/2021 |
| GSS 61.01 DFR Single | 11/15/2022 | 02/16/2021 |
| Action Revolvers | 11/13/2022 | 02/10/2021 |
| GSS 61.02 - DFR | 11/15/2022 | 02/16/2021 |
| | 11/13/2022 | 02/10/2021 |
| Smith & Wesson | | |
| Revolvers | 11/15/2022 | 02/16/2021 |
| GSS 61.03 - DFR Colt | 11/15/2022 | 02/16/2021 |
| Revolvers | | |
| GSS 62.03 - Misfire | 11/15/2022 | 02/16/2021 |
| Correction | | |
| GSS 62.04 - Correcting | 11/15/2022 | 02/16/2021 |

| | Status of Curriculum Reviews | |
|---|------------------------------|------------|
| Oversize Firing Pin Holes | | |
| GSS 63.01 - Single Triggers | 11/15/2022 | 02/16/2021 |
| GSS 63.02 -Ejectors | 11/15/2022 | 02/16/2021 |
| GSS 63.03 - Double Gun Locks | 11/15/2022 | 02/16/2021 |
| GSS 63.04-Double Gun Locking Systems | 11/15/2022 | 02/16/2021 |
| GSS 63.05 -Double Gun Hinge Pins & Headspace | 11/15/2022 | 02/16/2021 |
| GSS 64. 01- Composition Stock Fitting, Bedding & Finishing | 11/15/2022 | 02/16/2021 |
| GSS 66.01 -Non-Bolt Action Rifle Barrel Fitting | 11/15/2022 | 02/16/2021 |
| GSS 66.02 - Revolver Barrel Fitting and Ranging | 11/15/2022 | 02/16/2021 |
| GSS 66.03 - 22 Barrel Fitting | 11/15/2022 | 02/16/2021 |
| GSS 68.01 - DFR Locked Breech Single Action Auto Pistols | 11/15/2022 | 02/16/2021 |
| GSS 68.02 - DFR Locked Breech Double Action Auto Pistols | 11/15/2022 | 02/16/2021 |
| GSS 68.03 - DFR Blowback Auto Pistols | 11/15/2022 | 02/16/2021 |
| GSS 69.01 -DFR Auto Rifles | 11/15/2022 | 02/16/2021 |
| GSS 69.02-DFR Pump Rifles | 11/15/2022 | 02/16/2021 |
| GSS 69.03 -DFR Lever Action Rifles | 11/15/2022 | 02/16/2021 |
| GSS 69.04 - Non-bolt Action Feeding | 11/15/2022 | 02/16/2021 |
| GSS 70 - Checkering | 11/15/2022 | 02/16/2021 |
| GSS 70.01 -DFR Triggers 1 | 11/15/2022 | 02/16/2021 |
| GSS 70.02 - DFR Triggers 2 | 11/15/2022 | 02/16/2021 |

| GSS 71 - Custom Rifle | 11/15/2022 | 02/16/2021 |
|---------------------------------|------------|------------|
| Seminar | | |
| GSS 71.01 - DFR .22 | 11/15/2022 | 02/16/2021 |
| Auto | | |
| | | |
| GSS 71.02-DFR Bolt | 11/15/2022 | 02/16/2021 |
| Action .22's | | |
| GSS 71.03 -DFR | 11/15/2022 | 02/16/2021 |
| Pump and Lever | | |
| Actions .22'a | | |
| GSS 71.04 - DFR | 11/15/2022 | 02/16/2021 |
| Marlin Model 39 | 11/13/2022 | 02/10/2021 |
| | 11/15/2022 | 02/16/2021 |
| GSS 72 - Fiberglass | 11/15/2022 | 02/16/2021 |
| Stockmaking | 11/15/2022 | 02/16/2021 |
| GSS 72. 01- Metallic | 11/15/2022 | 02/16/2021 |
| Cartridge Reloading | | |
| GSS 73.02 - Spring | 11/15/2022 | 02/16/2021 |
| Making | | |
| GSS 75.02 - Firearm | 11/15/2022 | 02/16/2021 |
| Laws and Regulations | | |
| GSS 77 - Accurizing | 11/15/2022 | 02/16/2021 |
| Ml-MlA Competition | | |
| GSS 78 - Design & | 11/15/2022 | 02/16/2021 |
| Repair .22 Autopistals | | |
| GSS 79- Basic | 11/15/2022 | 02/16/2021 |
| Correctional Armorer's | 11/13/2022 | 02/10/2021 |
| School | | |
| GSS 82 - General | 11/15/2022 | 02/16/2021 |
| - | 11/13/2022 | 02/10/2021 |
| Gunsmithing GSS 83 - General | 11/15/2022 | 02/16/2021 |
| | 11/15/2022 | 02/16/2021 |
| Gunsmithing - | | |
| Advanced | | |
| GSS 84-LEAS D & R | 11/15/2022 | 02/16/2021 |
| Colt & Ruger | | |
| Revolvers | | |
| GSS 85 - LEAS D & R | 11/15/2022 | 02/16/2021 |
| Smith & Wesson | | |
| Revolvers | | |
| GSS 87-LEAS D & R | 11/15/2022 | 02/16/2021 |
| Double Action | | |
| Autopistols 1 | | |
| GSS 88 - LEAS D & R | 11/15/2022 | 02/16/2021 |
| Double Action | | |
| Autopistols 2 | | |
| GSS 89-LEAS D & R | 11/15/2022 | 02/16/2021 |
| Full Automatic | 11/13/2022 | 02/10/2021 |
| Firearms | | |
| | | |

| GSS 90 - Customizing | 11/15/2022 | 02/16/2021 |
|---|------------|-------------|
| the Colt-Type Autopistol, Basic | | |
| GSS 91 - Customizing | 11/15/2022 | 02/16/2021 |
| the Colt-Type | | |
| Autopistol, Advanced | 11/12/2022 | 02/12/2021 |
| GSS 93-LEAS D & R | 11/15/2022 | 02/16/2021 |
| Counter Sniper Rifles GSS 94 - Ballistics, | 11/15/2022 | 02/16/2021 |
| Handloading & Testing | 11/15/2022 | 02/10/2021 |
| GSS 95-Law | 11/15/2022 | 02/16/2021 |
| Enforcement Armorer | 11/10/2022 | 02/10/2021 |
| School - Basic | | |
| GSS 98.02- Cowboy | 11/15/2022 | 02/16/2021 |
| Action Shooting Long | | |
| Guns | | |
| GSS 98.03- Cowboy | 11/15/2022 | 02/16/2021 |
| Action Shooting Short | | |
| Guns GSS 98.04 Advanced | 11/15/2022 | 02/16/2021 |
| Knife Making | 11/15/2022 | 02/16/2021 |
| GSS 98.05 Design, | 11/15/2022 | 02/16/2021 |
| Function and Repair | 11/10/2022 | 02/10/2021 |
| Smith & Wesson | | |
| Revolver | | |
| GSS 98.06 - DFR | 11/15/2022 | 02/16/2021 |
| Patrol Rifles | | |
| GSS 98.08 - Custom | 11/15/2022 | 02/16/2021 |
| Built 1911 | 11/15/2022 | 02/16/2021 |
| GSS 98.09 - Color Case Hardening | 11/15/2022 | 02/16/2021 |
| GSS 98.12 Modem | 11/15/2022 | 02/16/2021 |
| and Cowboy Action | 11/15/2022 | 02/10/2021 |
| Belts and Holsters | | |
| GSS 98.13 - | 11/15/2022 | 02/16/2021 |
| Metallurgy for | | |
| Gunsmiths | | |
| GSS 98.21 - Hand Gun | 11/15/2022 | 02/16/2021 |
| Special Projects | 11/15/2022 | 00/1//20001 |
| GSS 98.22 - Long Gun Special Projects | 11/15/2022 | 02/16/2021 |
| GSS 98.23 - Machine | 11/15/2022 | 02/16/2021 |
| Shop Special Projects | 11/13/2022 | 02/10/2021 |
| GSS 98.24- | 11/15/2022 | 02/16/2021 |
| Stockmaking Special | | |
| Projects | | |
| GSS 112-Machine | 11/15/2022 | 02/16/2021 |

| Shop for Gunsmiths | | |
|------------------------|------------|------------|
| GSS 112B - | 11/15/2022 | 02/16/2021 |
| Introduction to | | |
| Knifemaking | | |
| GSS 114 - Basic Rifle | 11/15/2022 | 02/16/2021 |
| Barreling | | |
| GSS 116- | 11/15/2022 | 02/16/2021 |
| Stockmaking -Phase I | | |
| GSS 117-Gas | 11/15/2022 | 02/16/2021 |
| Tungsten Arc Welding | | |
| for Gunsmiths | | |
| GSS 119 - Advanced | 11/15/2022 | 02/16/2021 |
| Rifle Barreling | | |
| GSS 120- | 11/15/2022 | 02/16/2021 |
| Stockmaking - Phase 2 | | |
| GSS 120B - Stock | 11/15/2022 | 02/16/2021 |
| Refinish and | 11,10,2022 | 02/10/2021 |
| Repair/Recoil Pad | | |
| Installation | | |
| GSS 123 -Basic Hard | 11/15/2022 | 02/16/2021 |
| Metal Engraving | | |
| GSS 124- Welding | 11/15/2022 | 02/16/2021 |
| Fabrication for | | |
| Gunsmiths | | |
| GSS 127 - Advanced | 11/15/2022 | 02/16/2021 |
| Engraving | | |
| GSS 130 - Professional | 11/15/2022 | 02/16/2021 |
| Engraving | | |
| GSS 133 - Scrimshaw | 11/15/2022 | 02/16/2021 |
| | | |
| GSS 134 - Caustic | 11/15/2022 | 02/16/2021 |
| Bluing | | |
| GSS 135 - Parkerizing | 11/15/2022 | 02/16/2021 |
| | | |
| GSS 136- Cold Rust | 11/15/2022 | 02/16/2021 |
| and Niter Bluing | | |
| GSS 143 -Custom | 11/15/2022 | 02/16/2021 |
| Gunmaking- | | |
| Muzzleloaders | | |
| GSS 147-LEAS | 11/15/2022 | 02/16/2021 |
| Assembly and Tuning | | |
| of Gas Operated | | |
| Repeating Rifles | | |
| GSS 148- Advanced | 11/15/2022 | 02/16/2021 |
| Correctional Armorer | | |
| School | | |

| Degrees and | | Program PSLO |
|---------------------|------------|------------------|
| Certificates | | mapping reviewed |
| AS-General | 11/15/2022 | 03/02/2021 |
| Gunsmithing | | |
| AS - Firearm Repair | 11/15/2022 | 03/02/2021 |
| CA-General | 11/15/2022 | 03/02/2021 |
| Gunsmithing | | |
| CA-Firearms Repair | 11/15/2022 | 03/02/2021 |
| COA-Gunsmith | 11/15/2022 | 03/02/2021 |
| Machinist and Metal | | |
| Finishing | | |
| COA-Long Gun | 11/15/2022 | 03/02/2021 |
| COA-Pistolsmith | 11/15/2022 | 03/02/2021 |
| Certificate of | | |
| Accomplishment | | |
| COA-Riflesmith | 11/15/2022 | 03/02/2021 |
| Certificate of | | |
| Accomplishment | | |

Ma Martin Subject Area Faculty Signature

Johr

Subject Area Faculty Signature 15

Buck Bauer

5

Tom Downing, Curriculum and Academic Standards Committee Chair Signature

Williams, Dean of Instructional Services Michell

 $\frac{11/22/22}{Date}$ $\frac{11/28/22}{Date}$ $\frac{11/28/22}{Date}$ $\frac{11/29/2022}{Date}$ $\frac{12/1/2022}{Date}$

Date



CTE Advisory Committee Minutes Gunsmithing Program Advisory Committee Meeting Date: November 3, 2022 Meeting Time: 1600 Meeting Location: ZOOM

Committee Members/Invitees Present:

Buck Bauer, Lassen Community College, Full time Gunsmithing Instructor Michell Williams, Lassen Community College, Dean of Instruction CTE programs Fran Oberg, Lassen Community College, Executive Assistant, Academic Services Jake Floyd, Lassen Community College, Part time Gunsmithing Instructor Daniel Musante, Lassen Community College, Part time Gunsmithing Instructor Thomas Downing, Lassen Community College, AJ/POST Director Chad Lewis, Lassen Community College, Automotive Instructor, CTE Division Chair Barb Baston, Lassen Community College, Counselor Wesley Brians, Weatherby INC, Gunsmith

Committee Members/Invitees Absent:

John Martin, Lassen Community College, Full time Gunsmithing instructor Garrett Taylor, Lassen Community College, Business Instructor Peter Coelho, J&G Gunsmithing, Lead Gunsmith Matthew Hawes, Matthew Hawes Precision Gunsmithing, Owner/Lead Gunsmith Mike Lake, Nosler INC, Senior Manager, technical services Kelley Merritt, Lassen Co. Sheriff Department, Armorer

1. CALL TO ORDER: 4:06pm

A. Introductions

All members present introduced themselves.

B. Approval on minutes from meeting September 29, 2021

Tabled until next meeting. Not all members had opportunity to review.

C. Approval of Agenda

ACTION: Motion by Jake Floyd to approve agenda. Second by Dan Musante. All in favor, the motion passed.

II. REPORT ITEMS

A. Program Update

a. Revitalization

The program is going through Revitalization because of low enrollment. We did not admit new first year students this fall. Second year students are finishing out the program with the 1-week per class format. A change in format will make it so students can complete the General Education (GE) classes needed for an Associate's Degree in two years.

1. Format

The format is being changed from 1-week classes to semester-long classes.

2. Curriculum

Curriculum is being updated to the new semester-long classes.

3. Facilities

A new 40-foot shipping container has been purchased for storage. Maintenance is working on getting power to it. They're doing a good job. Once completed, the armory will be moved out of the current storage room and relocated to the shipping container. The storage room will be converted to a spray booth and oven area.

Guns are being updated including inertia-operated shotguns, striker-fire handguns, Glock & Sig-Sauer, AR/M16 style platform as designed and the new piston driven system. Basic CNC will be added to the machine shop classes. No platforms have been dropped, just adding new ones.

PROGRAM UPDATE DISCUSSION:

With the new semester-long format, students will not be in the shop as long so they have time to take GE classes. Instead of the week-long DFR handgun classes, all revolvers will be in one semester-long class, with one or two hours of lecture per week and 3 hours of lab time. Make up labs will be offered for students needing more time. Details are still being ironed out.

What happens if someone doesn't pass a section? The same policies are in place to re-take the class. If the current 2nd year students don't pass a class, they can sign up for a lab class and challenge the class to show knowledge.

There are 4 or 5 classes per semester. As listed in the program outline, there are 9 classes for the Fall, 4 classes for 1st year and 5 classes for 2nd year.

What happens if they fail a pre-requisite class? They re-take or challenge the course, then they can go on to the next class. They have the full semester to finish the check sheets, not just one week. In order to keep students on track, a certain amount of skills on the check sheets will be required to be completed by mid-semester.

None of the Chancellor's Office rules have changed. We have to show that students can complete a degree in 2 years. It's going to be a heavy lift, but we need to show the student has the opportunity to complete in 2 years. If we do not show this, college financial aid, etc. are at risk.

How many students will be allowed in the program? The cap is 44 students total – 22 1st year and 22 2nd year. If a student needs to re-take a class, the instructor will have leeway to add more.

The semester-long format may help some students. They don't have to cram it in to one week. If they take a bit longer to pick it up, they have leeway. That might help the success rate.

Lecture and lab hours have been cut back. Hopefully students will be ambitious and get the lab work done right after the lecture and not procrastinate.

Any comments on the new add-on guns? Wes Brians stated it's good to add inertia-operated shotguns. They have them at Weatherby. Wes may be able to get the company to donate some. He'll see what he can do.

How do Adjuncts fit into the new program? We still need them. The program won't work with just the two full-time instructors. We rely heavily on Adjuncts as Subject Matter Experts. We need to calculate workloads to find exact hours. Still ironing out scheduling so we can bring adjuncts in for two or three weeks at a time. LCC wants to make it beneficial for our Adjuncts. We'd hate to lose Adjuncts over possible reduced workload.

For facility updates, the armory is being moved to the container. The old armory area will be converted to a paint booth and oven. The inside of the shop will be re-painted over winter break. The lighting situation is being addressed. One bank of lights was switched out to LED as a trial. That change seems to have solved the lighting problem, so all lights will be switched to LED.

The container has a ramp, roll-up door, cement slab, new drainage, and a cement sidewalk that's under an overhang so students will be protected when going from the classroom to the container.

Michell William stated that long range plans – at least 5 years out – the gunshop will be moved to different location on campus.

IT is being updated. Updates to the CNC machine, technology and the Elmo in the classroom. We will be

putting another Elmo in the lab with a larger screen.

What about AC? Not in the short term. We purchased bigger fans for the work spaces and are doing the best we can right now. Air conditioning in classrooms is a campus-wide issue. Our new facilities manager is working with the Chancellor's Office to get us funding for upgrades. Ovens for color case hardening, etc. are being moved outside so they won't heat up the shop. The Cerakote oven will stay inside with the new paint booth.

B. Activation of new program

We cannot advertise our new program until it has been approved by the Chancellor's Office. Are the Course Outlines of Record fluid documents? Changes can be made, but they have to go through the process. Substantive changes must be approved in the fall for implementation the following fall. **ACTION:** Motion made by Jake Floyd to approve the new curriculum and degree plan for the program (courses, associate's degree and two certificates of achievement). Second by Wes Brians. All in favor, the motion passed.

C. Deactivation of current program

The current program will remain in effect through May 2023 to allow all current second year students to complete the program.

ACTION: Motion made by Wes Brians to deactivate the current curriculum and degree plan for the program after May 2023. Second by Dan Musante. All in favor, the motion passed.

III. DISCUSSION ITEMS

Advertising

We need to get the word out about our new program. Members were asked to brainstorm ideas for advertising and marketing.

Member Mike Lake was unable to attend the meeting, but emailed his suggestions: High Schools, Job Fairs or any place Military Recruiters attend, Rifleman magazine, Fish & Game programs, youth programs.

Jake Floyd has contacts at the Marine Corps Combat Center at 29 Palms. They do all education centers for Military installations. Michell Williams asked Jake to forward any contacts or contact info. Jake can get west coast contacts to Buck. Would getting east coast contacts be effective? Yes, we can at least mail them flyers.

Mike Lake met John Martin at a gun show. We haven't been to shows recently and gun shows have been impacted by Covid restrictions. Our plan is to return to gun shows as soon as we get Chancellor's Office approval for the program. Michell Williams extended an invitation to Adjuncts to help man the LCC booth at gun shows. There are usually funds available to pay you for your time. Please contact Michell if you're interested.

V. ADJOURNMENT

Michell Williams thanked everyone for their support of the program.

ACTION: Motion made by Dan Musante to adjourn the meeting. Second by Jake Floyd. All in favor, the meeting was adjourned at 5:00pm.

EMAILS FROM COMMITTEE MEMBERS NOT PRESENT AT THE MEETING:



Hi Buck,

The new curriculum looks very good to me! I like the semester-long class model much better than the one-week setup.

As for advertising, my thoughts are as follows:

- Get in front of High School students before they graduate. Look for Job Fairs and other places that on-campus recruitment is done, just like the military and larger colleges do.
- Advertise through the NRA in American Rifleman and American Hunter magazines.
- Make contact with Fish & Game Departments in the Western states all of them have youth programs for mentored hunts, Hunter Education, and other programs that would be great places to distribute a flyer that markets the program.
- Contact the State Unemployment Division. They have programs that pay for re-education of displaced workers, and your program may quality.

Hope you guys are doing well! Tell John "hi" for me-

Best, **Mike Lake** Senior Manager, Technical Services 800.285.3701 ext. 1026 Cell 541.979.0631 <u>mikel@nosler.com</u>



[shop.nosler.com]

LABOR MARKET ANALYSIS

North/Far North Center of Excellence MAY 2022 FOR PROGRAM RECOMMENDATION

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If, for any reason, this document is not accessible or if you have specific needs for readability, please contact us, and we will do our utmost to accommodate you with a modified version. To make a request, contact Ebony J. Benzing by phone at (916) 563-3215 or by email at Ebony.Benzing@losrios.edu.

SUMMARY

The North/Far North of Excellence for Labor Market Research prepared this report to provide a labor market analysis of educational supply and occupational demand for middle-skilled career pathways in the North/Far North region. This report aims to determine if demand in the local labor market is unmet by the supply from existing community college programs and other postsecondary training providers.

This report primarily focuses on training that leads to jobs in middle-skilled occupations - jobs that typically require education beyond a high school diploma but less than a Bachelor's degree

- but may include higher-skilled occupations for training pathways that lead to a bachelor's degree. Lowered skilled occupations are rarely considered in this type of analysis due to the lessened barriers for entry-level work, such as no formal education and on-the-job training requirements.

Key findings include:

- The traditional labor market information provided represents a broad range of jobs beyond the scope of Gunsmithing.
- Analysis of job postings yielded opportunities for employment under the traditional employerworker model, suggesting that many gunsmiths are self-employed. At this point, there is very little to no labor market data about gunsmiths.
- Lassen conferred an average of 26 awards (certificates and associate degrees) in Gunsmithing programs over the last three academic years (2018-19 through 2020-21).

Recommendations include:

- The North/Far North Center of Excellence does not recommend creating new gunsmithing programs at this point due to limited labor market data.
- The North/Far North Center of Excellence recommends that Lassen Community College move forward with chaptering its existing gunsmithing program at the Chancellor's Office.

3

INTRODUCTION

The North/Far North Center of Excellence (COE) was asked to provide labor market information for a proposed program at a regional community college. This report focuses on the following Standard Occupational Classification (SOC) occupations and codes:

- Installation, Maintenance, and Repair Workers, All Other (49-9099)
- Assemblers and Fabricators, All Other (51-2099)
- Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic (51-4072)
- Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4081)
- Metal Workers and Plastic Workers, All Other (51-4199)

A review of related programs revealed the following Taxonomy of Programs (TOP) title(s) and code(s) are appropriate for inclusion in this report:

• Other Engineering and Related Industrial Technologies (0999.00)

The corresponding Classification of Instructional Program (CIP) title(s) and code(s) are:

• Gunsmithing/Gunsmith (47.0402)

Description of occupations included in this report:

| Installation, Maintenance, and Repair Workers, All Other (49-9099) | | | |
|--|--|--|--|
| Description: | All installation, maintenance, and repair workers not listed separately. | | |
| Sample of reported job titles: | N/A | | |

Assemblers and Fabricators, All Other (51-2099)

| Description: | All assemblers and fabricators not listed separately. Miscellaneous assemblers and fabricators. |
|-----------------------------------|---|
| Sample of reported job titles: | N/A |

| Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic (51-4072) | | |
|---|---|--|
| Description: | Set up, operate, or tend metal or plastic molding, casting, or coremaking machines to mold or cast metal or thermoplastic parts or products. | |
| Sample of reported job titles: | Core Machine Operator, Die Cast Technician, Diecast Machine Operator, Machine Operator, Mold Setter, Mold Technician, Molder, Process Technician, Production Technician | |

| Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4081) | | |
|--|---|--|
| Description: | Set up, operate, or tend more than one type of cutting or forming machine tool or robot. | |
| Sample of reported job titles: | Cell Technician, CNC Machine Setter (Computer Numerically Controlled Machine Setter), Fabrication Set-Up Person, Injection Molding Technician, Machine Operator, Machine Technician, Mold Setter, Production Operator, Shear Operator, Tooling Set-Up Person | |

| Metal Workers and Plastic Workers, All Other (51-4199) | | |
|--|-----|--|
| Description: All metal workers and plastic workers not listed separately. | | |
| Sample of reported job titles: | N/A | |

OCCUPATIONAL DEMAND

Exhibit 1 summarizes the five-year projected job growth for middle-skill and high-skill occupations in the North/Far North and California.

Exhibit 1. Employment and projected demand, 2020-2025

| Occupation | 2020 Jobs | 2025 Jobs | 2020-2025 Change | 2020-2025 % Change | 2020-2025 Annual Openings |
|---|--------------|--------------|---------------------|-----------------------|---------------------------------|
| Installation, Maintenance, and Repair Workers, All Other | 2,694 | 2,849 | 155 | 6% | 318 |
| Miscellaneous Assemblers and Fabricators | 6,242 | 6,207 | (34) | (1%) | 680 |
| Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic | 321 | 363 | 42 | 13% | 43 |
| Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic | 241 | 284 | 43 | 18% | 35 |
| Metal Workers and Plastic Workers, All Other | 188 | 184 | (4) | (2%) | 20 |
| North/Far North | 9,686 | 9,887 | 201 | 2% | 1,095 |
| Installation, Maintenance, and Repair Workers, All Other | 24,368 | 24,288 | (80) | (0%) | 2,589 |
| Miscellaneous Assemblers and Fabricators | 102,518 | 103,048 | 530 | 1% | 12,164 |
| Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic | 7,669 | 7,582 | (87) | (1%) | 818 |
| Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic | 6,275 | 6,781 | 505 | 8% | 786 |
| Metal Workers and Plastic Workers, All Other | 2,293 | 2,256 | (38) | (2%) | 243 |
| California | 143,123 | 143,955 | 831 | 1% | 16,600 |

Exhibit 2 compares the percent change in jobs between 2015 through 2020 and the projected changes through 2025. The rate of change is indexed to the total number of jobs in 2015.



WAGES

North/Far North - Historical North/Far North - Projected California - Historical California - Projected

Exhibit 3 compares the entry-level, median, and experienced wages for the selected occupations to the North/Far North living wage for a single adult - \$12.29 per hour.¹

Exhibit 3. Comparison of wages by occupation, 2020

Installation, Maintenance, and Repair Workers, All Other

\$16.38

\$20.61

\$27.15

Miscellaneous Assemblers and Fabricators

Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic

\$14.20

\$13.52





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Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic

\$14.84

<mark>\$21</mark>.69

\$26.82

Metal Workers and Plastic Workers, All Other

\$13.72

\$15.87 \$19.94

\$- \$5.00 \$10.00 \$15.00 \$20.00 \$25.00 \$30.00

Living Wage - Single Adult (\$12.29)

¹ Living wage is defined as the level of income a single adult with no children must earn to meet basic needs, including food, housing, transportation, healthcare, taxes, and other miscellaneous basic needs. The 25th-percentile and 75th-percentile hourly wages are used as proxy for entry-level and experienced-level wages.

JOB POSTINGS

This section analyzes recent data from online job postings (real-time LMI). Online job postings may provide additional insight into recent changes in the labor market that are not captured by historical trends.

The North/Far North COE identified 638 online job postings for the selected occupations across the 22county North/Far North region. Job posting data comes from Burning Glass Labor Insights and represents new listings posted online within the last year, from May 1, 2021, to April 30, 2022.

Occupations and Job Titles

Exhibit 4 details the number of online job postings for the selected occupations.

Exhibit 4. Number of job postings by occupation

| Occupation | Job Postings | Share of Job Postings |
|--|--------------|-----------------------|
| Installation, Maintenance, and Repair Workers, All Other | 530 | 83% |
| Assemblers and Fabricators, All Other | 95 | 15% |
| Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic | 5 | 1% |
| Metal Workers and Plastic Workers, All Other | 5 | 1% |
| Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic | 3 | 0% |
| Total Job Postings | 638 | 100% |

Exhibit 5 shows the top 10 job titles with the most job postings and the share. All job postings included a job title. Most of the 150 job titles were for repair and service technicians, while none were for gunsmiths.

Exhibit 5. Top jobs titles

| Job Title | Job Postings | Share of Job Postings |
|--------------------|--------------|-----------------------|
| Service Technician | 51 | 8% |
| Repair Technician | 47 | 7% |

| Job Title | Job Postings | Share of Job Postings |
|---|--------------|-----------------------|
| Maintenance Mechanic | 44 | 7% |
| Pool Technician | 40 | 6% |
| Auto Service Technician - Consistent Workflow | 36 | 6% |
| Entry Level Service Technician | 32 | 5% |
| Senior Service Technician | 30 | 5% |
| Master Service Technician | 29 | 5% |

| Advanced Service Technician | 23 | 4% |
|-----------------------------|----|----|
| Pallet Repairman | 15 | 2% |

Job Postings for Gunsmiths

To identify real-time LMI for gunsmiths, the North/Far North COE conducted a job posting search for gunsmiths utilizing job titles and skills in the 22-county region of the North/Far North. Exhibit 6 summarizes the job titles and skills used in the job posting search.

The North/Far North COE identified 53 online job postings related to Gunsmithing in the North/Far North region posted within the last three years (January 1, 2019 - April 30, 2022). All identified job postings came from the job title search; a skills search resulted in 0 job postings.

Exhibit 6. Job title and skill search terms for Gunsmiths in NFN

| Job Titles (n = 53) | Skills (n = 0) |
|---------------------|-----------------------|
| Gunsmith | Gunsmith |
| Gun smith | Firearm repair |
| Armorer | Firearm maintenance |
| Gun* | Weapon(s) repair |
| | Weapon(s) maintenance |

* Note: Using the job title search term "Gun" resulted in 52 of the 53 job postings. However, most of these job postings were for jobs involving the sale/resale of firearms and related accessories (i.e., ammunition and safes) in retail shops (i.e., Bass Pro, Cabela's, Liberty Safes, etc.). Only one of the 53 job titles was explicitly for a gunsmith.

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EDUCATION AND TRAINING

The U.S. Census Bureau and Bureau of Labor Statistics collected data on education achieved by workers employed in occupations. Exhibit 11 shows the national-level educational attainment of the current workforce in the selected occupations.

Exhibit 11. National worker educational attainment for selected occupations, 2019

Installation,

Miscellaneous

Molding, Coremaking, Multiple Machine Tool

Metal Workers and

Maintenance, and Repair Workers, All Other

Assemblers and Fabricators

and Casting Machine Setters, Operators, and Tenders, Metal and Plastic

Setters, Operators, and Tenders, Metal and Plastic

| Plastic Worker | s, All Other | | | | | |
|---|---------------------|--------------|------------|------------|----------------------|--|
| | High school or less | Some college | Associates | Bachelor's | Master's or Doctoral | |
| The Bureau of Labor Statistics (BLS) uses a system to assign categories for entry-level education, work | | | | | | |

experience in a related occupation, and typical on-the-job training to each occupation for which the BLS

publishes projections data. Exhibit 12 shows the skill level and entry-level job requirements for the selected occupations.

Exhibit 12. Typical education, work experience, and on-the-job training requirements

| Occupation | Typical Entry-level Education | Work Experience Required | On-the-job Training Required |
|---|--------------------------------------|-----------------------------|---------------------------------------|
| Installation, Maintenance, and Repair Workers, All Other | High school diploma or equivalent | None | Long-term on-the- job training |
| Miscellaneous Assemblers and Fabricators | High school diploma or equivalent | None | Moderate-term on- the-job training |
| Molding, Coremaking, and Casting | High school diploma | None | Moderate-term on- |

Work Experience On-the-job Training **Typical Entry-level** Occupation **Education** Required Required the-job training Machine Setters, Operators, and Tenders, or equivalent Metal and Plastic Multiple Machine Tool Setters, High school diploma None Moderate-term on-Operators, and Tenders, Metal and or equivalent the-job training Plastic Metal Workers and Plastic Workers, All High school diploma None Moderate-term on-Other or equivalent the-job training

Certifications and Licensing

Gunsmithing is a federally licensed occupation. Individuals looking to sell and service firearms must hold a Federal Firearms License (FFL) from the Bureau of Alcohol, Tobacco, and Firearms (ATF).² Gunsmiths in California must also complete additional background checks and certifications through the State of California Department of Justice (DOJ) Bureau of Firearms.

EDUCATIONAL SUPPLY

Educational supply for an occupation can be estimated by analyzing the number of awards issued in related Taxonomy of Programs (TOP) or Classification of Instructional Programs (CIP) codes. Exhibit 13 shows the TOP and CIP codes for educational programs related to the selected occupations.

Exhibit 13. TOP and CIP codes for training programs related to the selected occupations

TOP Programs and Codes

Other Engineering and Related Industrial Technologies (0999.00)

Gunsmithing/Gunsmith (47.0402)

Gunsmithing Programs

Exhibit 14 lists current Gunsmithing programs available. Lassen Community College's Gunsmithing programs are the oldest (established in 1945) programs in the United States and the only NRA-approved gunsmithing programs offered in California.³

² Sourced from: <u>https://www.atf.gov/qa-category/gunsmiths?destination=qa-category/gunsmiths</u> on May 25, 2022. ³ Sourced from: <u>http://www.lassencollege.edu/academics/programs/Pages/Program-Costs.aspx</u> and <u>https://gunsmithing.nra.org/find-a-school/</u> on May 24, 2022.

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TOP Code Program Title Award Offered Other Engineering and Related General Gunsmithing Associate in Science Industrial Technologies Certificate of Achievement General Gunsmithing (0999.00) Certificate of Achievement **Firearms Repairs** Long Gun Certificate of Accomplishment Pistolsmith Certificate of Accomplishment Riflesmith Certificate of Accomplishment Gunsmith Machinist/Metal Certificate of Accomplishment Finish

Exhibit 14. Lassen's Gunsmithing Programs (as of May 24, 2022)

Community College Supply

Exhibits 15 and 16 compare the average number of certificates and degrees conferred in selected community college programs over the last three academic years.

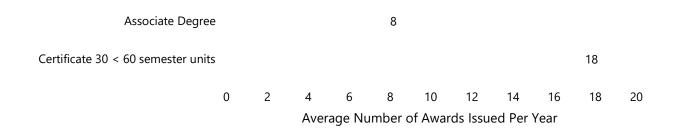
Exhibit 15. Annual average community college awards by program, 2018-19 through 2020-21

| Program - TOP Code | College | Awards | Annual Awards 2019-20 | Awards | 3-Yr Annual Awards Average |
|--------------------|---------|--------|-----------------------------|--------|----------------------------------|
|--------------------|---------|--------|-----------------------------|--------|----------------------------------|

| Other Engineering and Related Industrial Technologies (0999.00) | Lassen | 38 | 8 | 32 | 26 |
|---|-------------|----|---|----|----|
| | Grand Total | 38 | 8 | 32 | 26 |

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Exhibit 16. Annual average community college awards by type, 2018-19 through 2020-21



FINDINGS

- This report focuses on Gunsmithing in the North/Far North region. A gunsmith is a person who repairs, modifies, designs or builds firearms or guns.⁴ Gunsmiths may also sell firearms.
- Five occupations were selected for inclusion in this report, including Installation, Maintenance, and Repair Workers, All Other (49-9099), Assemblers and Fabricators, All Other (51-2099), Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic (51-4072), Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4081), and Metal Workers and Plastic Workers, All Other (51-4199).
- Assessing labor market demand for Gunsmithing jobs is an inherently difficult task. There is no singular occupational code that aligns with the gunsmith job. Five occupations were selected for this report to approximate the size of the labor market. However, many other jobs exist within these occupations. As a result, the traditional labor market information provided represents a broad range of jobs beyond the scope of Gunsmithing.
- Analysis of job postings yielded opportunities for employment under the traditional employerworker model, suggesting that many gunsmiths are self-employed. At this point, there is very little to no labor market data about gunsmiths.
- Lassen Community College's Gunsmithing programs are the oldest (established in 1945) programs in the United States and the only NRA-approved Gunsmithing programs offered in California. Lassen conferred an average of 26 awards (certificates and associate degrees) in Gunsmithing programs over the last three academic years (2018-19 through 2020-21).

RECOMMENDATIONS

- There isn't enough data to conclude whether or not Lassen's Gunsmithing program is filling an unmet labor market need, and occupational demand data for gunsmiths is extremely limited.
- However, Lassen's Gunsmithing programs are unique, and despite a COVID-related drop in awards during the 2019-2020 academic year, interest in the program remains strong.
- The North/Far North Center of Excellence does not recommend creating new gunsmithing programs at this point due to limited labor market data.
- The North/Far North Center of Excellence recommends that Lassen Community College move forward with chaptering its existing gunsmithing program at the Chancellor's Office.

APPENDIX A. METHODOLOGY AND SOURCES

This report identified Occupations using the Center of Excellence TOP-to-CIP-to-SOC crosswalk and O*Net OnLine. This report's findings were determined using labor market data from the Bureau of Labor Statistics (BLS), U.S. Census Bureau data from Emsi, and jobs posting data from Burning Glass.

Cal-PASS Plus LaunchBoard. California Community Colleges Chancellor's Office. <u>https://www.calpassplus.org/LaunchBoard/Home.aspx</u>.

Emsi 2021.4; QCEW Employees, Non-QCEW Employees, and Self-Employed. <u>https://www.economicmodeling.com/</u>. EMSI occupational employment data are based on final EMSI industry data and final EMSI staffing patterns. Wage estimates are based on Occupational Employment Statistics (QCEW and Non-QCEW Employees classes of worker) and the American Community Survey (Self-Employed and Extended Proprietors).

Educational Attainment for Workers 25 Years and Older by Detailed Occupation, 2016-2017. Bureau of Labor Statistics. <u>https://www.bls.gov/emp/tables/educational-</u> <u>attainment.htm#</u>.

Integrated Postsecondary Education Data System (IPEDS). National Center for Education Statistics. U.S. Department of Education. <u>https://nces.ed.gov/ipeds/</u>.

- "Labor Insight Real-Time Labor Market Information Tool." Burning Glass Technologies. http://www.burning-glass.com.
- Labor Market Information Division. California Employment Development Department. <u>https://labormarketinfo.edd.ca.gov/</u>.
- Management Information Systems (MIS) Data Mart. California Community Colleges Chancellor's Office. https://datamart.cccco.edu/.
- Occupational Employment Statistics (OES). Bureau of Labor Statistics. <u>https://www.bls.gov/oes/home.htm</u>.
- O*NET OnLine. U.S. Department of Labor/Employment and Training Administration (DOL ETA). https://www.onetonline.org/.
- Self-Sufficiency Standard Tool for California. The University of Washington. http://www.selfsufficiencystandard.org/
- "Taxonomy of Programs." California Community Colleges Chancellor's Office. June 2012, 6th Edition. <u>https://www.cccco.edu/-/media/CCCCO-Website/About-</u>

"TOP-CIP-SOC Crosswalk." Centers of Excellence for Labor Market Research. November 2015 Edition. http://coeccc.net/

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COVID-19 Statement: This report includes employment projection data by EMSI. EMSI's projections are modeled on recorded (historical) employment figures and incorporate several underlying assumptions, including the assumption that the economy during the projection period will be at approximately full employment or potential output. To the extent that a recession or labor shock, such as the economic effects of COVID-19, can cause long-term structural change, they may impact the projections. At this time, it is not possible to quantify the impact of COVID-19 on industry projections of and occupational employment. Other measures such as unemployment rates and monthly industry employment estimates will reflect the most recent information on employment and jobs in the state and, in combination with input from local employers, may help validate current and future employment needs as depicted here.

Important Disclaimer: All representations included in this report have been produced from primary research and/or secondary review of publicly and/or privately available data and/or research reports. Efforts have been made to qualify and validate the accuracy of the data and the reported findings; however, neither the Centers of Excellence, COE host District, nor California Community Colleges Chancellor's Office are responsible for applications or decisions made by recipient community colleges or their representatives based upon components or recommendations contained in this study.

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