

CATALOG INFORMATION

Dept and Nbr: NRM 132

Title: CHAINSAW OPER/CARE

Full Title: Chainsaw Safe Operation and Care

Last Reviewed: 1/28/2019

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	0.50	Lecture Scheduled	0.50	17.5	Lecture Scheduled	8.75
Minimum	0.50	Lab Scheduled	0.50	1	Lab Scheduled	8.75
		Contact DHR	0		Contact DHR	0
		Contact Total	1.00		Contact Total	17.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 17.50

Total Student Learning Hours: 35.00

Title 5 Category: AA Degree Applicable

Grading: Grade Only

Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP

Also Listed As:

Formerly: NRM 204

Catalog Description:

The proper operation, maintenance, and care of chainsaws.

Prerequisites/Corequisites:

Recommended Preparation:

Eligibility for ENGL 100 or ESL 100

Limits on Enrollment:

Schedule of Classes Information:

Description: The proper operation, maintenance, and care of chainsaws. (Grade Only)

Prerequisites/Corequisites:

Recommended: Eligibility for ENGL 100 or ESL 100

Limits on Enrollment:

Transfer Credit:

Repeatability: Two Repeats if Grade was D, F, NC, or NP

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree: **Area**
CSU GE: **Transfer Area**

Effective: Inactive:
Effective: Inactive:

IGETC: **Transfer Area**

Effective: Inactive:

CSU Transfer: Effective:

Inactive:

UC Transfer: Effective:

Inactive:

CID:

Certificate/Major Applicable:

Both Certificate and Major Applicable

COURSE CONTENT

Outcomes and Objectives:

Upon completion of this course, students will be able to:

1. Perform basic maintenance and trouble-shooting procedures for chainsaw power units.
2. Perform basic maintenance and trouble-shooting procedures for chainsaw electrical systems.
3. Perform basic maintenance and trouble-shooting procedures for chainsaw bar and chains.

Topics and Scope:

- I. Safety Procedures of Chainsaw Operation and Maintenance
 - A. Recognition of hazardous field situations
 - B. Importance of proper equipment maintenance
 - C. Importance of proper safety gear and clothing
 - D. Implementation of proper falling and bucking techniques
 - E. Evaluation of personal factors in chainsaw operation
- II. Saw and Chain Nomenclature
 - A. Two-cycle gas engine theory
 - B. Power system size designation-displacement/horsepower
 - C. Gas and electrical systems
 - D. Bar and chain types and sizes
- III Chainsaw Field Operational Techniques and Procedures
 - A. Proper falling and bucking techniques
 - B. Recognition of potential hazardous field situations
 - C. Field maintenance and chain sharpening
 - D. Use of axes and wedges in tree falling and bucking
- IV. Bench Maintenance Procedures
 - A. Power unit and fuel system maintenance
 - B. Spark plug and electrical system maintenance
 - C. Chain and bar maintenance
- V. Purchasing a Chainsaw
 - A. Evaluating overall needs and matching equipment with the job
 - B. Comparing individual features of different makes and models
 - C. Evaluation of maintenance features of different makes and models
 - D. Evaluation of operational features of different makes and models

Assignment:

1. Reading assignments of approximately fifty pages total.
2. Written safety exam.
3. Field demonstration of proper operational and safety techniques.
4. Demonstration of proper bar and chain maintenance techniques.

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

None, This is a degree applicable course but assessment tools based on writing are not included because skill demonstrations are more appropriate for this course.

Writing
0 - 0%

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

None

Problem solving
0 - 0%

Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Chainsaw use demonstration, field work

Skill Demonstrations
50 - 70%

Exams: All forms of formal testing, other than skill performance exams.

Safety exam: Multiple choice, True/false, Matching items, Completion, Short essay questions

Exams
30 - 50%

Other: Includes any assessment tools that do not logically fit into the above categories.

None

Other Category
0 - 0%

Representative Textbooks and Materials:

Instructor prepared materials.