

## **CHAPTER 50 OPERATING PROCEDURES**

**50 – GUIDELINES ON STUDENT-TEACHER RATIO.** In an effort to create an enhanced learning experience in the classroom there is a need to limit the number of students. This decision needs to be based on the type of course being taught, the experience level of the students, the ability to maintain rapport with the students, and the physical limitations of the classroom.

Since training programs are designed to teach new skills, provide knowledge and correct specific performance deficiencies, class size needs to be small enough to provide interactive learning situations rather than informational presentations. Informational presentations should be limited to less than 20 percent of the course time when practical.

Based on the above considerations 20 to 30 students are an ideal number of students for one instructor. Some courses could have up to 50 students provided there are adequate Unit Instructors to assist the Lead Instructor.

### **50.1 SPECIAL CONSIDERATIONS**

Some of the Instructor Guides recommend student to instructor ratio. For example the "Firefighter Type 1 Training" course, S-131, under Course Instructions on page 5 states, "In order to facilitate group exercises, it is recommended that instructors do not exceed a 6 to 1 student instructor ratio".

Field exercises for courses such as "Firefighting Training" (S-130), Fire Shelter Deployment, "Portable Pumps and Water Use" (S-211), "Wildland Fire Chain Saws" (S-212), would require additional Unit Instructors or coaches to assure safety and hands on training of fire suppression equipment.

Course objectives, exercises and testing; these measure student progress or deficiencies. When NWCG courses are used, all stated objectives must be met. The Lead Instructor has the latitude to add objectives, content, and hours to the course however hours cannot be reduced. Having students meet the course objectives and pass the final examination is often related to class size and how much time the instructor can provide to assist students having difficulty.

When using a translator to teach a course, plan for additional time in order to compensate for the translation from one language to another.

**51 – INSTRUCTOR EVALUATIONS.** The objective is to improve instructor performance by evaluating performance. This can be accomplished through the Student Course Evaluations and Final Examinations. Both are importation processes to improve the transfer of knowledge to the students and achieve the course and unit objectives.

**51.1 RESPONSIBILITIES**

Each Course Coordinator and Lead Instructor must be intimately familiar with the Instructors Guide, Course Objectives, Unit Objectives, and information essential for the coordination and presentation of the course.

Most of the Course Coordination Guides have an Evaluation Section that should be implemented and the results made available to the NWSA training coordinator upon request. These Student Course Evaluations should be summarized by the Course Coordinator or Lead Instructor and made a part of the Instructor's permanent file. If the Instructors Guide does not have a Student Evaluation Form available use the NWCG Student Evaluation Form found on page 50-4 and 50-5.

Lead Instructors have the responsibility for evaluating Unit Instructors. When Unit Instructors have 5 years of teaching experience and request certification to become a Lead Instructor, documentation should be made available to support this 5 year requirement.

**51.2 LEAD INSTRUCTOR EVALUATION**

Lead Instructors should have an evaluation by an independent third party the first year they are certified and then at least once every 5 years. **LEAD INSTRUCTORS ARE REQUIRED TO NOTIFY THE TRAINING COORDINATOR EITHER BY FAX OR E-MAIL ONCE A COURSE HAS BEEN SCHEDULED.** The Training Coordinator has the discretion to select an independent third party evaluator. Geographical Area MOU's also have a mandatory notification process.

The evaluator will complete the Instructor Evaluation Form during the training session. A completed evaluation will be sent to the Training Coordinator within five working days of the evaluation. This copy will be reviewed by the Training Coordinator to determine if any follow up action is required and then placed in the Instructors file. A second copy will be reviewed with and given to the Instructor by the evaluator. If requested a third copy will be given to the company owner who is sponsoring the course.

The “EVALUATION OF AN NWSA INSTRUCTOR” form is appropriate for both Lead and Unit Instructors and should be completed by the designated evaluator. If the entire course is evaluated the “Student Course Evaluation” form should be summarized on the last page of this form. The Instructor and Student Evaluation Forms can be found on Page 50-6 to 50-9

### **51.3 FUNDING**

The Training Committee and the Executive Director are working on a funding plan and fee schedule for evaluators to accomplish this new requirement.

**52 – COURSE COORDINATOR.** The Course Coordinator is responsible for the planning, implementation and administrative support of a NWCG training course. In most instances NWSA courses do not have a designated Course Coordinator and therefore the Lead Instructor has this responsibility. A question that has been raised by Lead Instructors: Who is responsible for certifying that the trainee meets the course prerequisites? Answer: The Lead Instructor would provide the company owner with a list of the course prerequisites. The company owner would certify in writing the trainees that meet the prerequisites. The responsibility and proof rests with the company that maintains the employee’s records. The Course Coordinators Guide, PMS 907 is an excellent reference for all Lead Instructors. Topics include the development of course time lines, basic preparation, pre and post course activities, with a supporting Appendix’s.

**53 – TRAINING CERTIFICATES.** NWSA instructors should use the NWSA Logo on training certificates. Company logos can be added to the certificate. The private sector or non-NWCG entities do not have authorization to use the NWCG logo or certificates in some geographical areas.

Certificates issued to individuals successfully completing a training course should have the following information on the certificate:

- A. Course title and number
- B. Course completion date
- C. Hours of instruction (classroom and field)
- D. Printed name of Lead Instructor
- E. Legal signature of Lead Instructor above the printed name

## EVALUATION OF AN NWSA INSTRUCTOR

Course Name:

Course No.

Lesson Title:

Date:

Instructor:

Evaluator:

Please rate each of the following items by circling the appropriate numbers; and  
Appropriate comments designed to assist the instructor in improving the unit or  
its presentation.

### CONTENT

	<u>Yes</u>		To Some <u>Extent</u>		<u>No</u>
1. The lesson provided information, ideas, and techniques that can be used by the students.	5	4	3	2	1

COMMENTS:

2. The contents provided practical skills for application on the job.	5	4	3	2	1
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COMMENTS:

### INSTRUCTOR

1. The objectives were clearly defined by the Instructor.	5	4	3	2	1
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COMMENTS

2. The objectives were achieved. 5 4 3 2 1

COMMENTS:

3. The instructor was knowledgeable in the subject. 5 4 3 2 1

COMMENTS:

4. The instructor was organized and delivered the material to accepted NWSA standards. 5 4 3 2 1

COMMENTS:

5. The instructor established and maintained rapport with the class. 5 4 3 2 1

COMMENTS:

6. The instructor promoted participant discussion and interaction through the use of questions. 5 4 3 2 1

COMMENTS:

7. The instructor handled questions in an adequate manner. 5 4 3 2 1

COMMENTS:

8. The instructor used the most current NWCG training material      Yes      No

COMMENTS:

9. The instructor used a variety of audio-visual aid to enhance the presentation.      5      4      3      2      1

COMMENTS:

- a. Used a/v as cues, guides, discussion points, or to illustrate, not as fillers or time killers?      Yes      No
- b. Visuals were legible from all parts of the room?      Yes      No
- c. Visuals were appropriate to the subject?      Yes      No
- d. Instructor used visual materials and equipment in an acceptable manner?      Yes      No

10. Did the instructor speak loud enough and clearly enough to be heard throughout the classroom?      Yes      No

11. Did the instructor's handouts contribute to the accomplishment of the objectives?      5      4      3      2      1

COMMENTS:

12. Are there any handout materials the instructor should update, and, or delete from the presentation?  
If yes, please list below:      Yes      No

COMMENTS:

13. Did the classroom assignments of practical exercises, if used, contribute to meeting the lesson objective? 5 4 3 2 1

COMMENTS:

14. As an evaluator, what do you suggest the instructor do to improve the unit material or its delivery? Please be constructive. If there isn't anything you can think of, just leave this section blank.

## **54 - CERTIFICATION of CHAIN SAW OPERATORS**

The Field Manager's Course Guide (PMS-901-1) states that "instructor qualifications are agency determined" for teaching S-212, Wildland Fire Chain Saws. Agency policies on chain saw operators and fallers vary by agencies, as outlined in the Interagency Standards for Fire and Fire Aviation Operations (NFES 2724), Chapter 13.

The NWSA training program is committed to following NWCG standards as stated in their February 3, 1994 position paper entitled "Training Qualifications and Certification for Non-NWCG Entities" or Geographical Area MOU's.

### **54.1 - INSTRUCTOR PREREQUISITES**

Instructor prerequisites will be based on the NWCG S-212 Instructor Guide, December 2012 (NFES 002660). The Lead Instructor must be Certified at the Operator 2 level or above. Each instructor needs to be knowledgeable in all Federal, State and local laws, rules, and regulations that apply to chain saw operations.

### **54.2 - CHAIN SAW OPERATIONS**

Use of the NWCG position task books is required. All fire program Operators must complete the NWCG S-212 Wildland Fire Chain Saws Course, including the field exercise. This may qualify the individual at the "3" level.

The individual tasks required for completion of the final certification for the "3" level saw operator must be certified by a qualified "2 or 1" level operator.

The individual tasks required for completion of the final certification for the "2" level saw operator must be certified by a qualified "2 or 1" level operator.

The individual tasks required for completion of the final certification for the "1" level saw operator must be certified by a qualified "1" level operator.

All fire related saw operator qualifications, have a currency of three (3) years. In the case of a Lead Instructor unable to maintain currency, the Lead Instructor shall have qualified and current faller 2 evaluators present both in the classroom and field. One evaluation is needed for each saw team during field exercise.

Certification of saw operators will be valid from the date of issuance as long as the individual fire fighter maintains currency for the ICS position. This can be accomplished by the Crew Boss completing a Incident Personnel Performance Rating (ICS 225) or an Individual Performance Rating (ICS 226) for chain saw operators on his crew. Another option for evaluation would be the Evaluation Record and Faller Stump Analysis in the Task Book for Faller Class 3,2, &1 when working on projects or prescribed fires. Designating a faller on the Crew Time Report will also serve as documentation.

NWSA members shall use the NWCG position task book (PMS#311.91, Nov. 2014). Found at: [www.nwcg.gov/pms/taskbook/taskbook.htm](http://www.nwcg.gov/pms/taskbook/taskbook.htm)

Size classes used in the Faller 3, Faller 2, and Faller 1 Position Task Book are guidelines and are not the determining factor in the complexity of a tree falling operation. The size classes are to be used as an evaluation tool during trainee evaluation. Chain saw operators are expected to **conduct a size up of each individual tree** and determine the extent of qualification required to safely perform a felling operation.

#### **54.2 - CERTIFICATION**

This section defines the qualifications for operating chain saws.

**Class 3.** Apprentice chain saw operators using chain saws for felling are limited to material under eight (8) inches in diameter. Minimum requirements include the successful completion of the NWCG S-212 course, Wildland Fire Chain Saws course. This is a 24 to 36 hour course.

**Class 2.** Intermediate chain saw operators using chain saws for felling are Limited to material under twenty four (24) inches in diameter. Minimum requirements include the successful completion of the S-212 course and completion of the NWCG Task Book for Faller Class 2.

**Class 1.** Advanced chain saw operators are considered skilled in felling material over twenty four (24) inches in diameter. They should be knowledgeable in recognizing danger trees and how to eliminate the danger. Minimum requirements include the successful completion of the S-212 course and completion of the NWCG Task Book for Faller Class 1.

The Wildland Power Saw course S-212 is required for all certification levels.

#### **54.3 - CERTIFICATION (CONTINUED)**

Focus should be: demonstrated performance, hands-on operation of chain saws, safety procedures (constant vigilance), and use of personnel protective equipment. Knowledge of personal capabilities and limitations is essential in making tree falling decisions or **making the decision to walk away**.

#### **54.4- RECERTIFICATION**

If currency has expired, the person shall revert to the trainee level only in the position for which currency expired. A new Position Task Book will be issued for the position and all field tasks must be completed. Any new requirements added to the position will have to be completed.

Agency contract requirements vary and may require a process different than the one outlined above.

#### **54.5-FIELD EXERCISE & DATA BASE ENTRY**

Often the class room and field exercise are completed at separate times. Course notification should include both the class room and field exercise dates. Entering data in the data base should be when the class is completed and a certificate will be issued for satisfactory course completion.