

Student's Name _____

Directions:	Evaluate the trainee using the rating scale below and check the appropriate number to indicate the degree of competency achieved. The numerical ratings of 3, 2, 1, and 0 are not intended to represent the traditional school grading system of A, B, C, D, and F. The descriptions associated with each of the numbers focus on level of student performance for each of the tasks listed below.
Rating Scale:	0 - No Exposure - no information nor practice provided during training program, complete training required. 1 - Exposure Only - general information provided with no practice time, close supervision needed and additional training required. 2 - Moderately Skilled - has performed independently during training program, limited additional training may be required. 3 - Skilled - can perform independently with no additional training.

1. Number of Competencies Evaluated	_____
2. Number of Competencies Rated 2 or 3	_____
3. Percent of Competencies Attained (2/1)	_____
_____	_____
Grade	
_____	_____
Instructor Signature	Date

01.0 Introduction to Forestry

The student will be able to:

- 0 1 2 3
 01.01 Match historical events with their major dates and people involved
 01.02 List the federal and state agencies involved in management of forests
 01.03 Describe how the forest industry operates in Idaho
 01.04 Identify the location of National Forests in Idaho
 01.05 Describe how private sector forestry plays its part in Idaho forestry
 01.06 List the steps necessary to enter forestry training at the university level in the Northwest
 01.07 Identify the size relationship of forestry to other agriculture industries in Idaho
 01.08 List various types of forest products processed and manufactured in Idaho
 01.09 Identify uses that a forest has other than the production of timber
 01.10 Describe other cultural and environmental influences of forests
 01.11 Describe the duties and responsibilities of one forestry related career
 01.12 Select the types of Cedar products that are produced in Idaho
 01.13 Identify types of forestry career training programs in the northwest

02.0 The Forests

The student will be able to:

- 0 1 2 3
 02.01 Match terms associated with tree growth and forests
 02.02 List the main parts of a tree including crown, trunk and root system
 02.03 Describe the photosynthetic process of a tree
 02.04 List the 2 kinds of wood formed in an annual ring of diameter growth
 02.05 Classify trees according to size, crowns, and stands
 02.06 Identify the six forest regions of the United States

03.0 Identify Idaho Trees and Forest Plants

The student will be able to:

- 0 1 2 3
 03.01 Match terms associated with identifying trees and plants to their correct definition
 03.02 Distinguish between the characteristics for angiosperms and gymnosperms
 03.03 Label the parts of a simple leaf
 03.04 Name the types of veins in a leaf
 03.05 Label leaf shape and margins
 03.06 Identify leaf arrangements
 03.07 Identify evergreens based on needle, cone, and bark
 03.08 Identify various species of forest plants
 03.09 Identify the various reproductive systems as to sexual or asexual

04.0 Forest Surveying

The student will be able to:

0 1 2 3

- 04.01 Identify common forest surveying tools and equipment
- 04.02 Match terms and definitions associated with forest surveying
- 04.03 List the methods to find horizontal distance
- 04.04 List the types of tapes used in forest surveying
- 04.05 Arrange the steps in chaining horizontally and along slopes
- 04.06 Describe how to measure around obstacles with a tape
- 04.07 List the essential parts and accessories of a compass
- 04.08 Use a compass to obtain directions
- 04.09 Describe how to find magnetic declination
- 04.10 Find true azimuths and bearings for magnetic angles
- 04.11 List the guidelines to follow when reading a compass
- 04.12 Demonstrate pacing skill
- 04.13 Demonstrate ability to use a clinometer to measure slope
- 04.14 Demonstrate how to set magnetic declination on a compass
- 04.15 Convert slope distance to horizontal distance
- 04.16 Demonstrate the proper use of a hip chain

05.0 Forest Land Location

The student will be able to:

0 1 2 3

- 05.01 Match terms and definitions associated with land location
- 05.02 Select the methods of land survey systems
- 05.03 Match subdivisions of a rectangular survey to a map
- 05.04 Determine the number of acres from a legal description
- 05.05 Locate and label the principle base line and meridian for Idaho
- 05.06 List the types of witness markings
- 05.07 List items of entry found in survey notes
- 05.08 List the locations where survey notes can be found
- 05.09 Locate points from a given legal description
- 05.10 Write the legal description for a given point

06.0 Tree Measurements

The student will be able to:

0 1 2 3

- 06.01 Classify trees as to form
- 06.02 Match terms associated with tree measurements
- 06.03 Classify tree diameters correctly when given exact measurements

0 1 2 3

- 06.04 Identify and properly use common equipment used for determining tree heights
- 06.05 Identify and properly use common equipment used for determining tree diameter
- 06.06 Select the proper volume table for different tree species and form classes
- 06.07 Properly use volume tables to determine standing tree volume given tree height, diameter, form class, and species

07.0 Log Scaling

The student will be able to:

0 1 2 3

- 07.01 Match terms and definitions associated with log scaling
- 07.02 List commonly used log rules
- 07.03 List the parts of a scale stick
- 07.04 List the steps in scaling a log
- 07.05 Identify the types of defects for logs
- 07.06 Demonstrate the use of the Scribner decimal C log rule to determine the gross and net volume of logs

08.0 Remote Sensing in Forestry

The student will be able to:

0 1 2 3

- 08.01 Identify the uses of aerial photographs for forestry
- 08.02 Identify the different types of aerial photographs
- 08.03 Identify equipment used with aerial photograph interpretation
- 08.04 Use aerial photograph stereo pairs to determine land formations, cover types, and tree heights

09.0 Pine Tree Grading

The student will be able to:

0 1 2 3

- 09.01 Match terms and definitions associated with pine tree grading
- 09.02 Choose the reasons trees are graded
- 09.03 List the common tools used to find upper stem diameters
- 09.04 List the procedure to establish tentative log grades
- 09.05 List the defects that degrade a log
- 09.06 Demonstrate ability to measure log height, measure upper stems, and grade trees

10.0 Plot Cruising

The student will be able to:

- 0 1 2 3
- 10.01 Match terms and definitions associated with plot cruising
- 10.02 Select the commonly used plot forms and sizes
- 10.03 State commonly used plot sizes based on plot radii
- 10.04 List the methods of determining cruise intensity
- 10.05 Select the methods of planning a sampling layout
- 10.06 List the steps for conducting a plot cruise
- 10.07 Distinguish between advantages and disadvantages of plot cruising
- 10.08 Demonstrate the ability to complete a plot cruise layout
- 10.09 Demonstrate the ability to determine sawtimber and pulpwood volumes per acre using the plot cruising method

11.0 Point Sampling

The student will be able to:

- 0 1 2 3
- 11.01 Match terms and definitions associated with point sampling
- 11.02 Select other names for point sampling
- 11.03 Diagram an illustration of point sampling
- 11.04 Identify the tools used for point sampling
- 11.05 Select the principles used to determine BAF
- 11.06 Match commonly used BAF's to the correct angle size
- 11.07 State the rule to use PRF
- 11.08 Match commonly used BAF to the correct PRF
- 11.09 Select the proper uses of a prism
- 11.10 State the rules for determining the number of points to use in a point sampling cruise
- 11.11 Demonstrate the ability to complete a point sample layout
- 11.12 Demonstrate the ability to determine sawtimber volume per acre using the point sampling method

12.0 Silvicultural Systems

The student will be able to:

- 0 1 2 3
- 12.01 Match terms and definitions associated with silvicultural systems
- 12.02 Name the types of reproduction methods that can be used
- 12.03 Select the principles of selection method
- 12.04 Name the characteristics used in selecting harvest trees
- 12.05 Identify various species of Christmas trees

0 1 2 3

- 12.06 Describe the cultural practices used for a Christmas tree crop
- 12.07 Compare the management systems used for even age and uneven age management

13.0 Marking Timber

The student will be able to:

- 0 1 2 3
- 13.01 Identify equipment used for marketing timber
- 13.02 Match terms and definitions associated with marking timber in thinnings
- 13.03 Match methods and definitions for thinning
- 13.04 Select the most commonly used methods of marking timber
- 13.05 Arrange the priorities for marking trees in a thinning
- 13.06 Select the correct factors for crown spacings
- 13.07 Select the reasons for removing diseased trees and snags

14.0 Seeding and Planting

The student will be able to:

- 0 1 2 3
- 14.01 Match terms and definitions associated with seeding and planting
- 14.02 Name the sources for seed and seedlings
- 14.03 Name the types of seedling packaging
- 14.04 Select the correct procedures for the care of seedlings for transport
- 14.05 Describe the ways of storing seedlings for long and short term periods
- 14.06 Select the factors for seedling spacing
- 14.07 Identify the tools and methods used in hand planting
- 14.08 Describe the time to collect conifer cones
- 14.09 Describe the procedures for seed treatment before seeding
- 14.10 Match seeding applications to methods of seeding
- 14.11 Identify the planting zones for each tree species
- 14.12 Identify the requirements needed for certified tree seed

15.0 Timber Stand Improvement

The student will be able to:

- 0 1 2 3
- 15.01 Match terms and definitions associated with timber stand improvement
- 15.02 Select the correct classifications of intermediate cuttings

0 1 2 3

- 15.03 Select the correct methods of cleaning, liberation, and recommendations for improvement
- 15.04 List the agents of damage that require salvage cutting
- 15.05 Select the factors influencing pruning
- 15.06 Identify tools and equipment for herbicide application
- 15.07 Describe the needs and uses for sanitation cutting

16.0 Harvesting Timber

The student will be able to:

0 1 2 3

- 16.01 Match term and definitions associated with harvesting timber
- 16.02 List factors associated with location and accessibility of a timber stand
- 16.03 Identify correct procedures used in felling and bucking timber
- 16.04 Identify tools and equipment associated with harvesting timber
- 16.05 Select the correct uses of various types of equipment
- 16.06 Identify safety procedures for harvesting timber
- 16.07 Describe the correct procedures for skidding, loading, and hauling timber
- 16.08 Demonstrate the ability to design skid trails, access roads, and skyline corridors
- 16.09 Demonstrate the proper use and maintenance skills for a chain saw

17.0 Fire Fighting

The student will be able to:

0 1 2 3

- 17.01 Match terms and definitions associated with fire fighting
- 17.02 Name the elements of the rare triangle
- 17.03 Name the purposes of fire control organizations
- 17.04 Select the means of fire prevention
- 17.05 Name the classes of fire
- 17.06 Name the methods of fire attack
- 17.07 Name the methods of crew organization using hand tools
- 17.08 Identify the tools used in fire fighting

18.0 Prescribed Burning

The student will be able to:

0 1 2 3

- 18.01 Identify the tools used for prescribed burning
- 18.02 Match terms and definitions associated with prescribed burning
- 18.03 Select the reasons for prescribed burning
- 18.04 Select the most desirable wind direction and velocity
- 18.05 List the range of preferred relative humidity and the effects of temperature change on humidity
- 18.06 Name the desired range of temperatures for prescribed burning
- 18.07 Identify an anemometer and a psychrometer
- 18.08 List the steps of a pruning plan
- 18.09 Select the factors that determine the type of fire techniques to be used in a prescribed burn
- 18.10 Demonstrate the ability to determine weather factors related to burning
- 18.11 Demonstrate the ability to determine the prescribed pruning technique to be used

19.0 Forest Protection

The student will be able to:

0 1 2 3

- 19.01 Match terms and definitions associated with forest protection
- 19.02 List the reasons for identifying pest damage
- 19.03 Match the symptoms and causes for damage
- 19.04 Identify common insect pests in Idaho forests
- 19.05 Identify diseases prevalent in northwest fore
- 19.06 Match the problems with the control factors for pests such as insects, diseases, livestock, big game, and rodents for Idaho forests

20.0 Forest Business Methods

The student will be able to:

0 1 2 3

- 20.01 Match terms and definitions associated with forest business methods
- 20.02 List the categories of records necessary in a forestry business
- 20.03 List the basic items necessary in a timber sale
- 20.04 Arrange the steps in a bidding procedure
- 20.05 Select the elements of an offer

0 1 2 3

- 20.06 Select the items that might result in the termination of an offer
- 20.07 Identify the parts of a contract compliance
- 20.08 Inspect a timber sale for contract compliance
- 20.09 List the components of a timber sale appraisal

21.0 Importance of Wildfire Management

The student will be able to:

0 1 2 3

- 21.01 Understand the ecological benefits of wildlife
- 21.02 Understand the economic benefits of wildlife
- 21.03 Identify the aesthetic benefits of wildlife

22.0 History of Wildlife and Fish Management

The student will be able to:

0 1 2 3

- 22.01 Identify historical aspects of wildlife management
- 22.02 Identify the historical development of fish management

23.0 Ecological Concepts

The student will be able to:

0 1 2 3

- 23.01 Understand ecosystems
- 23.02 Understand carrying capacity and population effects

24.0 Identify Wildlife and Fish Species

The student will be able to:

0 1 2 3

- 24.01 Examine animal species, including fur bearers
- 24.02 Identify rash species (fresh and salt water)
- 24.03 Identify fowl species
- 24.04 Identify exotic game

25.0 Management of Wildlife and Fish Populations

The student will be able to:

0 1 2 3

- 25.01 Explore water, food and cover requirements of wildlife
- 25.02 Examine and develop habitats for wildlife production
- 25.03 Discuss the management of wildlife populations
- 25.04 Discuss the management of fish populations

26.0 Natural Resources for Outdoor Recreations

The student will be able to:

0 1 2 3

- 26.01 Identify recreational enterprises
- 26.02 Identify methods of developing recreational enterprises
- 26.03 Discuss the management of recreational enterprises
- 26.04 Review state and federal policies concerning recreational activities

27.0 Career Opportunities

The student will be able to:

0 1 2 3

- 27.01 Identify career opportunities in wildlife management
- 27.02 Identify career opportunities in outdoor recreation management