

NOCTI

State Customized
Credential Blueprint



Conservation (NY)

Code: 7426 / Version: 01
Copyright © 2003. All Rights Reserved.

General Assessment Information

Blueprint Contents

General Assessment Information
Written Assessment Information
Specific Competencies Covered in the Test

Sample Written Items
Performance Assessment Information
Sample Performance Job

Test Type: The Conservation assessment was developed based on standards used in the state of New York and contains a multiple-choice and performance component. This assessment is meant to measure technical skills at the occupational level and includes items which gauge factual and theoretical knowledge.

Revision Team: The assessment content is based on input from New York educators who teach in career and technical education programs.



03.0101

Natural Resources/Conservation,
General



Career Cluster 1-
Agriculture, Food, and
Natural Resources



45-4011.00

Forest and Conservation Workers



NATIONAL COLLEGE CREDIT RECOMMENDATION SERVICE
University of the State of New York - Regents Research Fund

In the lower division
baccalaureate/associate degree
category, 3 semester hours in
Environmental Conservation,
Environmental and Forest Biology, or
natural Resources Measurement and
Sampling

Written Assessment

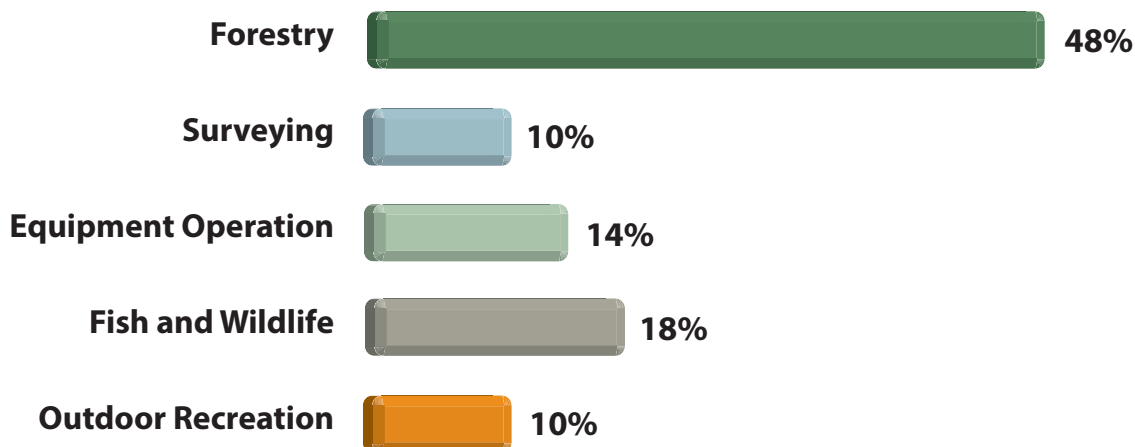
This written assessment consists of questions to measure an individual's factual theoretical knowledge.

Administration Time: 3 hours

Number of Questions: 152

Number of Sessions: This assessment may be administered in one, two, or three sessions.

Areas Covered



Specific Standards and Competencies Included in this Assessment

Forestry

- Tree identification
- Forest measurements
- Basic silvaculture
- Horticulture concepts
- Chainsaw safety
- Ecological concepts/soils

Surveying

- Compass/pacing/taping
- Topographic maps
- Leveling

Equipment Operation

- Safety
- Pre-operational checks
- Preventative maintenance
- Volume calculations

Fish and Wildlife

- Fish and wild life management
- Ecosystems

Outdoor Recreation

- Adirondack Park (NYS rec)
- Trails/campgrounds

(Continued on the following page)

Sample Questions

A compound leaf is found on a/an _____ tree.

- A. balsam fir
- B. hickory
- C. American basswood
- D. American beech

One Gunter's chain equals _____ feet.

- A. 23
- B. 66
- C. 129
- D. 225.5

The violent rear-thrusting of a chainsaw, back and towards the user, is known as

- A. dropstart
- B. jumpback
- C. kickback
- D. pulling the chain

A forester determines his/her pace to be 5.8 feet. How many paces will it take to cover $\frac{1}{4}$ mile? (1 mile = 5280 feet)

- A. 58
- B. 1320
- C. 215
- D. 227.6

Which of the following organisms has the greatest impact on ecological relationships?

- A. humans
- B. deer
- C. insects
- D. fungi

(Continued on the following page)

Performance Assessment

NOCTI performance assessments allow individuals to demonstrate their acquired skills by completing actual jobs using the tools, materials, machines, and equipment related to the technical area.

Administration Time: 3 hours, 45 minutes

Number of Jobs: 4

Areas Covered:

15% Identification of Plant Specimens

Identify the common names of 30 plant specimens

30% Sharpening and Adjusting Chain Saw

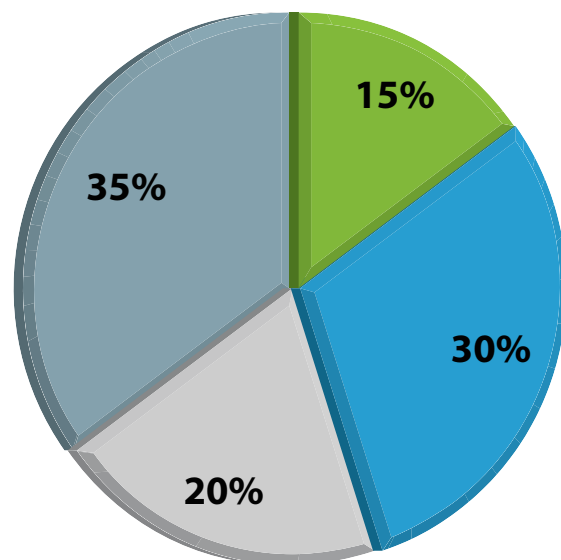
Sharpen and adjust the chain on a chain saw

20% Calculate Acreage

Determine pace, record bearings, pace perimeter, plot and compute

35% Plotting and Analyzing 1/5 Acre

Flag out plot, tally trees, calculate tree volume, present summary



Sample Job

Wrap Application

Estimated Job Time: 90 minutes

Participant Activity: The test participant will:

1. Flag out a 1/5-acre plot using 100-foot tape or 1/5-acre tape.
2. Tally all saw timber size trees (10" d.b.h. or greater).
3. Calculate volume of standing trees by species and d.b.h.
4. Present summary on a per acre basis.