NOCTI
Partner Credential Blueprint

NORTHWEST ARKANSAS COMMUNITY COLLEGE | TRAIL TECHNICIAN PROGRAM

Trail Technician

Test Code: 9674/ Version: 01

General Assessment Information

Blueprint Contents

Test Type: NorthWest Arkansas Community College (NWACC) selected NOCTI/Nocti Business Solutions as its development and delivery partner for the Trail Technician Level 1 certification. This certification covers the essential skills and techniques required to create and maintain well-designed, safe, and sustainable mountain bike trails and is available for individuals seeking certification. Order Credential Assessment

CIP Code

03.0101– Natural Resources/Conservation, General
03.0104 – Environmental Science
03.0205 – Water, Wetlands, and Marine Resources Management
03.0508 – Urban Forestry
03.0201 – Natural Resource Recreation and Tourism
49.0202 – Construction/Heavy Equipment/Earthmoving Equipment Operation (for trail building with machinery)
31.03 – Parks, Recreation and Leisure Facilities Management

Learning that works for America CTE™

Architecture and Construction; Agriculture, Food & Natural Resources (ALL)

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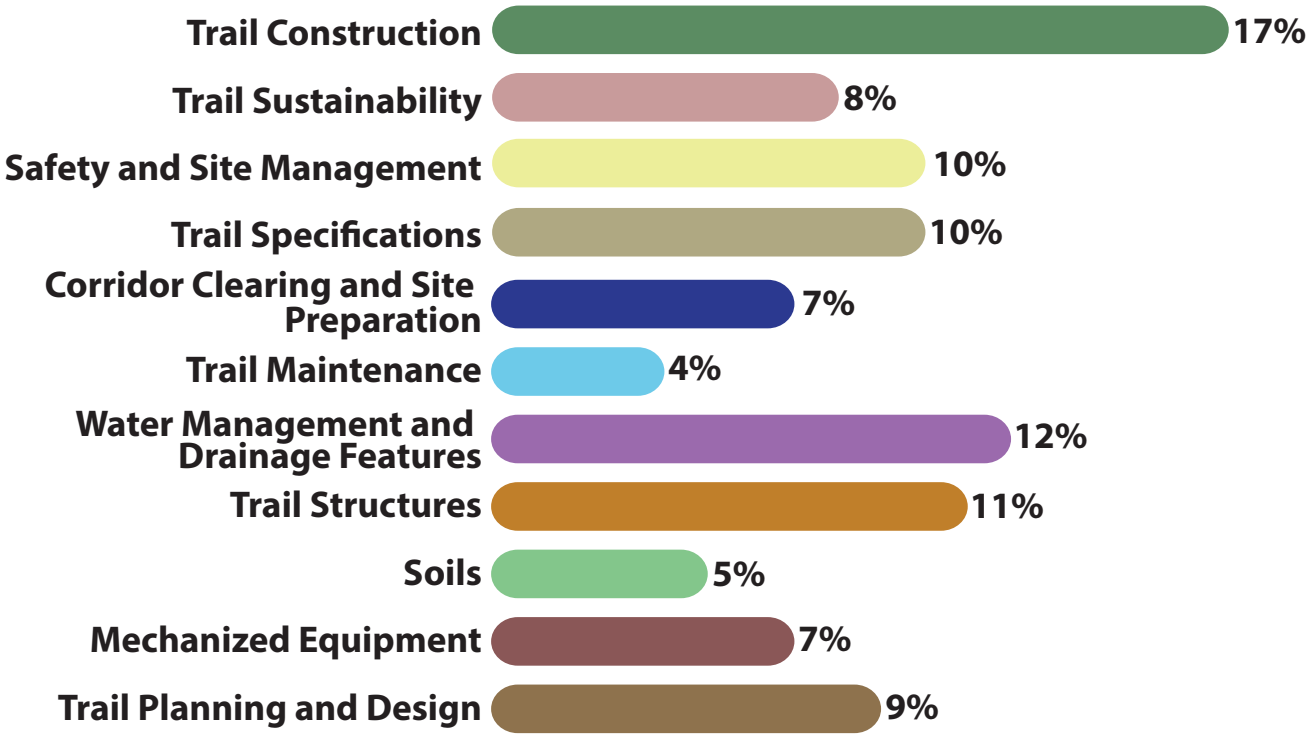
17-1012.00 Landscape Architects; 47-1011.00 First-Line Supervisors of Construction Trades and Extraction Workers

Written Assessment

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

Administration Time: 3 hours
Number of Questions: 126
Number of Sessions: This assessment may be administered in one, two, or three sessions.

Areas Covered



Specific Competencies and Skills Tested in this Assessment

Trail Construction
- Identify trail sustainability principles
- Describe hand-built trail construction
- Discuss trails finish work
- Define decommissioning trails

Trail Sustainability
- Describe sheet flow, slope, and erosion
- Identify drainage principles
- Describe user impact on trails

Safety and Site Management
- Discuss PPE and safety training
- Identify tools and tool safety
- Discuss worksite safety

Trail Specifications
- Describe corridor height and width
- Describe trail tread width, slope, and grade
- Identify protrusions and obstacles

Corridor Clearing and Site Preparation
- Describe corridor clearing
- Describe tree removal and chainsaw use
- Discuss material and debris management

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Specific Standards and Competencies (continued)

Trail Maintenance
- Describe trail maintenance and sustainability goals
- Discuss tread maintenance and hand tools

Water Management and Drainage Features
- Describe outsloping and application of drainage features
- Identify locations of drainage features

Trail Structures
- Identify water crossing structures
- Discuss retaining walls
- Describe tread hardening

Soils
- Identify types of soils
- Identify characteristics of soils

Mechanized Equipment
- Describe the operation of mechanized equipment
- Identify types of mechanized equipment

Trail Planning and Design
- Determine site elevations
- Describe trail objectives and design

Sample Questions

When soil is displaced from a trail, it can result in

A. better conditions for vegetation
B. rutted tread and trail widening
C. a stream crossing
D. trail narrowing and compaction

How large is the safety zone radius while working on a trail?

A. 6 feet
B. 15 feet
C. specific to the proper use of each tool or machine
D. just within ear shot of next nearest trail worker

A characteristic of insloped tread is

A. it promotes sheet flow across the trail
B. it requires minimal maintenance
C. users cannot maintain speed through the turn
D. the tread is sloped inward toward the hill

To operate a chainsaw on public lands, the trail technician must

A. be able to identify local tree species
B. use an approved model of chainsaw
C. have 5 years of chainsaw operational experience
D. meet the required agency certification criteria

The trail tread is outsloped to

A. promote drainage across the tread
B. make the trail more challenging for users
C. minimize fill
D. manage spoils

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Sample Questions (continued)

The purpose of a grade reversal is to

A. provide a passing zone
B. provide rest areas
C. divert water off the trail
D. make a jumpable feature

Rocks should be placed in a retaining wall

A. with large spaces between the rocks
B. in tight contact with adjacent rocks
C. rounded side up to shed water
D. slightly outsloped to shed water

To determine how much clay is in soil,

A. dig a borrow pit
B. roll it in your hand
C. smell it
D. jump on it

What equipment transports materials, and can traverse muddy terrain?

A. mini excavator
B. trail dozer
C. mechanized wheelbarrow
D. plate compactor

Control points are used in trail planning and design to help define

A. areas to include or avoid
B. the end point of a trail system
C. a list of resources for trail users
D. what tools to use for construction