



2020-2021

Technical Skills Assessment

Ecology and Natural Resource Management

Results by Standard

Legend (%)		
0-50%	51-75%	76-100%

Assessment: Ecology and Natural Resource Management	% Correct
Number tested: 22	20-21
CONTENT STANDARD 1.0: EXPLORE NATURAL RESOURCE SCIENCE AND MANAGEMENT	67.58%
Performance Standard 1.1: Investigate The Relationship Between Natural Resources And Society, Including Conflict Management	65.15%
1.1.1 Define natural resource management	68.18%
1.1.5 Explain natural resource conservation. Investigate the effects of multiple uses of natural resources (e.g., recreation, mining, agriculture, forestry, public lands grazing, etc.)	72.73%
1.1.7 Explore societal issues and conflicts related to natural resource management	54.55%
Performance Standard 1.2: Explain Interrelationships Between Natural Resources And Humans In Managing Natural Environments	71.21%
1.2.1 Identify the demands of population growth on natural resources and the environment	70.45%
1.2.2 Examine the use and management of renewable and nonrenewable resources	72.73%
1.2.3 Describe the role of individuals in stewardship of the environment	70.45%
CONTENT STANDARD 2.0: INVESTIGATE ECOLOGICAL CONCEPTS AND SCIENTIFIC PRINCIPLES RELATED TO NATURAL RESOURCE SYSTEMS	67.27%
Performance Standard 2.1: Explore Ecological Principles In Natural Resource Management	62.12%
2.1.2 Identify natural processes that govern ecosystems over time	65.15%
2.1.3 Describe the interdependence of organisms within an ecosystem (i.e., food chains and webs)	59.09%
Performance Standard 2.2: Explore Properties Of Soil	69.70%
2.2.2 Identify soil texture	69.70%
Performance Standard 2.3: Explore Principles Of Hydrology	71.21%
2.3.1 Define watersheds and explain their hydrological and ecological function	75.76%
2.3.4 Describe the function of wetlands and importance of wetland management	66.67%
CONTENT STANDARD 3.0: EXPLORE PRINCIPLES OF RANGELAND MANAGEMENT	61.36%
Performance Standard 3.1: Identify Rangeland Types And Management Practices	61.36%
3.1.1. Define rangelands and identify key characteristics	63.64%
3.1.5 Identify laws, policies and managing entities of rangelands	47.73%
3.1.6 Identify impacts of use on rangelands	72.73%
Performance Standard 3.3: Identify Common Idaho Rangelands Plants	62.12%

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3.3.1 Identify morphological characteristics of rangeland plants	46.59%
3.3.5 Define native, introduced, invasive, noxious and poisonous plants	93.18%
Performance Standard 3.4: Apply Rangeland Management Practices	59.09%
3.4.1 Identify key components of a management plan	59.09%
3.4.5 Determine stocking rates based on animal demand and forage supply	58.74%
CONTENT STANDARD 4.0: EXAMINE FOREST RESOURCES AND MANAGEMENT	50.00%
Performance Standard 4.1: Identify Forest Types And Management Practices	33.33%
4.1.1 Define forests and identify key characteristics of forest plants	72.73%
4.1.3 Assess different methods of forest management	63.64%
4.1.5 Identify multiple uses of forests	39.39%
4.1.6 Identify laws, policies and managing entities of for	61.36%
Performance Standard 4.2: Understanding The Historic, Environmental, Social AndEconomic Importance Of Idaho Forests	61.36%
4.2.2 Identify the ecological services provided by forests	64.94%
Performance Standard 4.3: Identify Common Idaho Forest Plants	68.18%
	59.09%
4.3.1 Identify morphological characteristics of forest plants	
4.3.2 Use a dichotomous key to identify trees, shrubs and other forest plants	69.70%
4.3.5 Define native, introduced, invasive, noxious and poisonous plants	64.29%
Performance Standard 4.4: Apply Forest Management Practices	70.45%
	63.64%
4.4.1 Identify key components of a management plan	
4.4.2 Identify forest management tools and techniques	59.09%
4.4.6 Discuss impacts of dynamic forces of change (e.g. fire, weather, insects, disease, people, animals, invasive species, etc.) on forests and identify management strategies	50.91%
CONTENT STANDARD 5.0: EXPLORE FIRE ECOLOGY AND MANAGEMENT	50.91%
Performance Standard 5.1: Explore The Effects Of Fire On Rangeland And Forest Ecosystems	40.91%
5.1.4 Describe the social, economic and ecological effects of wildland fire	57.58%
5.1.5 Examine the role of fuel management and the relationship between fuel load and fire effects in rangeland and forest ecosystems	60.61%
CONTENT STANDARD 6.0: UNDERSTAND THE IMPORTANCE AND APPLICATION OF GPS	51.52%
Performance Standard 6.1: Investigate GPS/GIS Systems And Their Applications	31.82%
6.1.2 Describe the purpose and function of a Global Positioning System (GPS)	61.36%
Performance Standard 6.2: Demonstrate The Use Of Land Management Maps	63.64%
6.2.1 Use legal descriptions to identify locations and acreage	54.55%
6.2.2 Identify symbols on topographical maps	72.73%
6.2.3 Predict terrain based on topographical maps	61.36%

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CONTENT STANDARD 7.0: INVESTIGATE FISH AND WILDLIFE ECOLOGY	69.70%
Performance Standard 7.1: Explore The Importance And Distribution of Fish And Wildlife Resources In Idaho	78.41%
7.1.4 List impacts on wildlife habitat	78.41%
Performance Standard 7.2: Understand Wildlife Management	52.27%
associated with wildlife management	52.27%
CONTENT STANDARD 8.0: EXAMINE MINERAL AND ENERGY RESOURCES MANAGEMENT	55.45%
Performance Standard 8.1: Examine Mineral Resources And Management	59.09%
8.1.4 Describe the impact of mining practices on the environment	59.09%
Performance Standard 8.2: Recognize The Types And Importance Of Energy Resources	53.03%
8.2.4 Analyze positive and negative impact of energy development on the environment	53.03%
CONTENT STANDARD 9.0: EXPLORE CAREER OPPORTUNITIES IN THE NATURAL RESOURCE INDUSTRY	38.64%
Performance Standard 9.1: Understand Employment Fields In The Natural Resource Industry	38.64%
9.1.2 Explore education and training for different natural resource management careers	38.64%