



Work Process Schedule

Forest and Conservation Specialists	
Job Description: Provide technical assistance regarding the conservation of soil, water, forests, or related natural resources. May compile data pertaining to size, content, condition, and other characteristics of forest tracts under the direction of foresters, or train and lead forest workers in forest propagation and fire prevention and suppression. May assist conservation scientists in managing, improving, and protecting rangelands and wildlife habitats.	
RAPIDS Code: 3094CB	O*NET-SOC Code: 19-4071.00
Estimated Program Length: 2000 hours	
Apprenticeship Type: ☒ Competency-Based ☐ Time-Based ☐ Hybrid	

On-the-Job Learning Outline

Competency Check List	Demonstrates Fundamentals: Apprentice can perform the task with some coaching.	Proficient in Task: Apprentice performs task properly and consistently.	Completion Date: Date apprentice completes final demonstration of competency.
	Demonstrates Fundamentals	Proficient in Task	Completion Date/Initials
Thin and space trees and control weeds and undergrowth, using manual tools and chemicals.			
Support seasonal activities, such as planting tree seedlings, putting out forest fires, and maintaining recreational facilities.			
Learn about regulations, such as those concerning environmental protection, resource utilization, fire safety, and accident prevention.			



Map forest tract data using digital mapping systems. Measure distances, clean sightlines, and record data to help survey crews.			
Support forest protection activities, including fire control, fire crew training, and fire detection public education programs.			
Perform reforestation or forest renewal, including nursery and silviculture operations, site preparation, seeding and tree planting programs, cone collection, and tree improvement.			
Inspect trees and collect samples of plants, seeds, foliage, bark, and roots to locate insect and disease damage.			
Measure distances, clean sightlines, and record data to help survey crews.			
Support laboratory or field experiments with plants, animals, insects, diseases, and soils.			
Project Management Software —Microsoft Teams: Utilize Microsoft Teams and Outlook to schedule and attend meetings, collaborate with team members, manage project tasks, and track progress.			
Spreadsheet software — Microsoft Excel: Use Microsoft Excel to analyze data, create spreadsheets, and perform calculations.			
Utilize Geographic Information Systems (GIS) to communicate and share data.			
Utilize graphics, photo imaging, or mapping software to communicate and share information.			
Utilize public and private databases and artificial intelligence to gather information related to pollution and conservation.			
Analyzing Data or Information — Identifying the underlying principles, reasons, or facts of information by breaking down information or data into separate parts.			



Organizing, Planning, and Prioritizing Work — Developing specific goals and plans to prioritize, organize, and accomplish your work.			
Making Decisions and Solving Problems — Analyzing information and evaluating results to choose the best solution and solve problems.			
Communicating with Supervisors, Peers, or Subordinates — Providing information to supervisors, co-workers, and subordinates by telephone, in written form, e-mail, or in person.			
Establishing and Maintaining Interpersonal Relationships — Developing constructive and cooperative working relationships with others.			
Communicating with People Outside the Organization — Communicating with people outside the organization, representing the organization to customers, the public, government, or other external sources.			



Related Core Subjects

Provider	
Name: Open Source Ag	
Address: 2620 Gray Hawk Way, San Miguel, CA 93451	
Email: kelly@opensource.ag	Phone Number: (559) 670-0352
Suggested Related Instruction Hours: 150	

Course Title	Contact Hours
Forestry and Conservation Skills	60
Microsoft Office Suite	15
Technology	15
Communication	20
Analysis	20
Operations	20
TOTAL	150

See class information attached