

Associate MemberProposed Scope of Practice Development

Name:
OPFA Provisional Member Number:
Proposed Scope of Practice:
Geographical Region: (e.g. Region of Ontario, specific counties etc.)
Forest Region : (e.g. Great Lakes/St. Lawrence, Carolinian, urban etc.)
Type of Land: (e.g. Private, Conservation Authority, Municipal, Crown)
Woodlot Size:

Time period of forest management plans:

Please identify those competency elements that are required to work within your proposed scope of practice from the list below:

STANDARD 1: FOUNDATIONAL STUDIES				
1.1	Des	cribe	basic/introductory humanities, social science and scientific knowle	dge
		1.11	Scientific Principles	
		1.12	Concepts of Biology, chemistry and mathematics	
		1.13	Social structures and processes	
		1.14	Economic structures and processes	
		1.15	Institutions and values of importance to society in Canada	
STANDAR	D 2:	COM	MUNICATIONS, CRITICAL REASONING AND LEADERSHIP	
2.1	Con	nmuni	cate effectively with a wide variety of audiences regarding forest re	esource issues
		2.11	Proper concepts and terminology	
		2.12	Clear and persuasive arguments	
		2.13	Effective listening and reading comprehension skills	
		2.14	Cultural and social sensitivity	
		2.15	Formal written report(s)	
		2.16	Formal presentation(s) (oral and visual media)	
		2.17	Other forms of communication (including social media)	
2.2	App	oly crit	ical reasoning	
		2.21	Relevant background information and documents	
		2.22	Logical arguments and development of rationales	
		2.23	Appropriate supporting documentation	
		2.24	Role of external expertise	
		2.25	Professional judgment	
		2.26	Processes to balance objectives	
2.3	Use	leade	rship skills in collaborative decision making	
		2.31	Leadership styles and their application	
		2.32	Effective team participation and leadership	
		2.33	Approaches to collaborative decision making	
		2.34	Conflict resolution skills	
STANDAR	D 3:	PROF	FESSIONALISM AND ETHICS	Required for all applicants
3.1	ldeı	ntify th	ne functions of professional regulatory bodies	
		3.11	Structure and functions of regulated professions in Canada	
		3.12	Relations amongst professions	
		3.13	Criteria for entry into a profession, and quality assurance standards	
		3.14	Roles of codes of conduct/ethics and standards of practice	
		3.15	Complaints and discipline processes	
3.2	Arti	culate	the duties and obligations of professionals	
		3.21	Scope of practice	
		3.22	Standards of practice	
		3.23	Codes of conduct/ethics	
		3.24	Service to the public, profession, employer and resource	
		3.25	Professional practice documentation	
		3.26	Conflict of interest	
		3.27	Commitment to maintain competency	
		3.28	Personal professional competence and role of outside expertise	
		3 29	Health and safety considerations	

STANDARD 4: TREES AND SHRUBS					
4.1	lden	tify tr	ees and other plants and describe their growth characteristics		
	Ш	4.11	Tree and other plant recognition (regional context), including the use of identification keys		
		4.12	Plant anatomy, morphology and physiology		
		4.13	Tree genetics, silvics and life cycle		
		4.14	Plant and tree autecology		
		4.15	Plant and tree synecology		
4.2	Des	cribe t	tree attributes and their relationship to forest values.		
		4.21	Attributes - size, form, age, health, quality, etc.		
		4.22	Factors affecting tree attributes		
		4.23	Tree values (wildlife habitat, shade, wood fibre, air quality, etc.)		
4.3	Expl	lain pa	ast, current and possible future stand conditions and the processes that lead to them		
		4.31	Stand origin and structure (species composition, size distributions, age and spatial arrangements)		
		4.32	Forest soil properties and influences on stand origin and development		
		4.33	Stand values (wildlife habitat, wood fibre, water management, recreation, etc.)		
		4.34	Stand dynamics		
		4.35	Biotic and abiotic agents, including climate, affecting stand dynamics		
		4.36	Silviculture and silvicultural prescriptions		
STANDAR	D 5: I	FORE	STED LANDSCAPES		
5.1	lden	tify th	e components, characteristics and processes in forested ecosystems and how they interact		
		5.11	Concepts and principles of landscape-level ecology		
		5.12	Forest ecosystem components and connectivity		
		5.13	Concepts and measures of diversity including spatial and temporal diversity		
			Forest ecosystem function and dynamics (e.g. carbon capture and storage, forest hydrology, forest		
		5.14	nutrient cycling, fish and wildlife)		
5.2	App	ly eco	logical classification systems in a regional context		
		5.21	Principles of forest ecological classification systems		
		5.22	Forest soil classification		
		5.23	Forest climatology		
5.3	App	ly kno	wledge of the influences and interactions of agents of change in the management of		
0.0	fore	sted la	andscapes		
		5.31	Biotic and abiotic disturbance factors (insects, disease, fire, meteorological effects, human		
		5.32	interventions, etc.) and their effects on forest ecosystem function Invasive species		
		5.33	Climate change		
		5.34	•		
		5.35	Ecosystem resilience Protection and mitigation activities		
CTANDAD	—		RMATION ACQUISITION AND ANALYSIS		
6.1		6.11	Orienteering (company many and Clabel Regitioning System (CRS))		
	\vdash	6.12	Orienteering (compass, maps and Global Positioning System (GPS)) Field measurement tools and procedures		
	-		·		
	\vdash		Remote sensing tools and procedures		
6.2		6.14	Geographic Information Systems (GIS)		
0.2		6.21	sic sampling strategies Principles of basic statistics		
	\vdash	6.22	Sampling design and methods and their suitability for use		
	\vdash	6.23			
6.3	ш.		Sampling precision, bias and effectiveness		
0.3		6.31	nd interpret forest resource data Databases, spreadsheets and graphic presentations		
	\vdash	6.32	Geographic Information Systems (GIS)		
	\vdash	6.33	Forest resource inventory		
	\vdash	6.34	Statistical packages		
		U.J4	Cialistical packages		

STANDARD 7: PLANNING AND ADMINISTRATION						
7	7.1	Discuss the role of economics in planning				
			7.11	Financial and economic analysis		
		Ш	7.12	Socio-economic and market forces		
		Ш	7.13	Forest products and ecological services valuation		
			7.14	End use and value-added		
7	7.2	Ide	ntify s	ocietal factors, governance and regulation in your work		
			7.21	Role of government forest policies (at varied levels: municipal, provincial, federal)		
			7.22	Legal and policy framework		
			7.23	Forest values (ecological, social, and economic)		
			7.24	Indigenous Peoples' Treaty and other rights, claims, traditions and interests		
			7.25	Public and stakeholder concerns and interests		
			7.26	Human resources		
7	7.3	Em	ploy re	esource planning principles		
			7.31	Principles of project planning and implementation		
			7.32	Criteria, indicators, and measures		
			7.33	Principles of adaptive management		
			7.34	Forest certification schemes		
Plassa	ام و د	<u>ect</u>	whic	th one of the following Standard 8 areas of practice is most relevant to your		
	_		_	in <u>one</u> of the following Standard 6 areas of practice is most relevant to your		

proposed scope of practice:

You should read through the competencies and competency elements for each before making your decision

STANDARD 8A: FOREST MANAGEMENT (FORM)
STANDARD 8B: NATURAL RESOURCES AND ECOSYSTEM MANAGEMENT (NREM)
STANDARD 8C: URBAN FORESTRY
STANDARD 8D: FOREST OPERATIONS (FOPR)
STANDARD 8E: ECOLOGICAL RESTORATION AND MANAGEMENT (ERAM)

In the following section, please identify the competency elements within <u>your selected</u> Standard 8 Area of Practice that are required to work within your proposed scope of practice

The other Standard 8 sections should be left blank

STANDARD 8A: FOREST MANAGEMENT (FORM)							
8A.1	Disc	Discuss the forest management process, and its requirements and levels					
	8	3A.11	Components of the forest management process				
	8	3A.12	Purpose of forest management planning				
	8	3A.13	Domestic and global trends				
	8	3A.14	Concepts and applications of sustainability				
	8	3A.15	Strategic, tactical and operational planning levels				
8A.2	Desi	gn sta	nd and forest-level plans				
	8	3A.21	Legal and policy requirements				
	8	3A.22	Stakeholder consultation				
	8	3A.23	Forest values (ecological, social, and economic)				
	8	3A.24	Current stand and forest-level conditions				
	8	3A.25	Management objectives and constraints				
	8	3A.26	Stand-level actions (silviculture) and forest-level scenarios to attain different management objectives				
	8	3A.27	Stand-level projection models				
	8	3A.28	Landscape/forest-level projection models				
	8	3A.29	Performance measurement criteria and methodologies				
8A.3	Deve	lop o	perational plans				
	8	3A.31	Business and operational objectives and constraints				
	8	3A.32	Resources required				
	8	3A.33	Basic operational planning including forest access, silviculture, protection, harvesting, monitoring, etc.				

STANDAR	D 81	B: NAT	URAL RESOURCES AND ECOSYSTEM MANAGEMENT (NREM)
8B.1	Dis	cuss th	ne landscape management process, requirements and levels
		8B.11	Components of the landscape management process
		8B.12	Purpose of landscape-level management planning
		8B.13	Domestic and global trends
		8B.14	Concept and applications of sustainability
		8B.15	Strategic, tactical and operational planning levels
8B.2	De	sign en	vironmental/landscape-level plans
		8B.21	Legal and policy requirements
		8B.22	Stakeholder consultation
		8B.23	Landscape values (ecological, social, and economic)
		8B.24	Current landscape conditions
		8B.25	Management objectives and constraints
		8B.26	Landscape/forest-level projection models
		8B.27	Actions (silviculture) used to attain different management objectives
		8B.28	Performance measurement criteria and methodologies
8B.3	De	velop o	perational plans
		8B.31	Business and operational objectives and constraints
		8B.32	Resources required
		8B.33	Basic operational planning including access, silviculture, protection, use management, etc.

STANDARD 8C: URBAN FORESTRY						
8C.1	Identify the variety of values and interests in an urban and peri-urban forest					
		8C.11	Ecological, social and economic benefits			
		8C.12	Green infrastructure systems, storm water attenuation, natural hydrologic cycles in built environments, moderation of local climate and urban heat, etc.			
		8C.13	Interests, rights and responsibilities of private landowners, local residents, municipal governments, ENGOs, community groups, local residents, etc.			
		8C.14	Multicultural values and considerations			
		8C.15	Species at Risk and their habitats			
	Ш	8C.16	The process of extensive urbanization ("development") and intensive urbanization ("infilling")			
8C.2	Cor	nmuni	cate urban forest strategic and operational planning principles			
		8C.21	Components of urban forest planning and landscape design			
		8C.22	Principles of urban planning including the various levels of planning documents (site plan approval, plans of subdivision, etc.)			
		8C.23	Purpose of urban forest planning			
		8C.24	Domestic and global trends			
		8C.25	Urban forest health issues			
		8C.26	Management objectives: types, setting and attainment			
		8C.27	Role and application of monitoring in urban forestry			
		8C.28	Arboriculture practices on the urban landscape (including selection and placement of trees, proper maintenance, hazard trees and risk assessment factors, determining and managing tree values)			
		8C.29	Tools (models and methods) used in urban forestry			
8C.3	Dev	elop a	resource plan for an urban or peri-urban forest			
		8C.31	Legal and policy requirements			
		8C.32	Tree/landscape inventory			
		8C.33	Stakeholder consultation			
		8C.34	Ecological, social and economic values			
		8C.35	Management objectives and constraints			
		8C.36	Actions (silviculture) used to attain different management objectives			
		8C.37	Performance measurement criteria and methodologies			

STANDARD 8D: FOREST OPERATIONS (FOPR)					
8D.1	Discuss the forest management process, and its requirements and levels				
		8D.11	Components of the forest management process		
		8D.12	Purpose of forest management planning		
		8D.13	Domestic and global trends		
		8D.14	Concepts and applications of sustainability		
		8D.15	Strategic, tactical and operational planning levels		
8D.2	Dis	cuss p	urpose and components of forest planning		
		8D.21	Forest values (ecological, social, and economic)		
		8D.22	Legal and policy requirements		
		8D.23	Current stand and forest-level conditions		
		8D.24	Management objectives and constraints		
		8D.25	Stand-level actions (silviculture) and forest-level scenarios to attain different management objectives		
		8D.26	Stand-level projection models		
		8D.27	Landscape/forest-level projection models		
		8D.28	Harvest methods for variable terrain and timber types		
8D.3	Des		rest road systems and road crossing implementation strategies		
			Access management and planning		
			Legal requirements for access to public highways and wetland, stream and river crossings		
			Road design and crossing design (bridges, culverts)		
			Operational constraints of road and crossing design		
			Economics of road and crossing design		
		8D.36	Road and crossing design safety		
		8D.37	Options for road and crossing design under a variety of terrain and soil conditions including unstable terrain		
		8D.38	Options for road and crossing inspections		
8D.4	De	velop o	perational plans		
		8D.41	Stakeholder consultation		
		8D.42	Operational objectives		
		8D.43	Economics of timber extraction		
		8D.44	Harvest strategies, roads, crossings, production and delivery schedules (may include stand establishment and tending)		
		8D.45	Safety considerations for workers and the public		
		8D.46	Performance measurement criteria and methodologies		

STANDARD 8E: ECOLOGICAL RESTORATION AND MANAGEMENT (ERAM)				
8E.1	Dis	cuss th	ne principles of maintaining or building soils and related management	
		8E.11	Principles for management and/or mitigation of industrial soil disturbance	
		8E.12	Principles and management techniques for remediation of soil ecosystem contaminants	
		8E.13	Impact of substrates, topography and vegetation on pedogenic development	
		8E.14	Management considerations for soil fertility and soil water across a range of soil conditions	
8E.2	ldeı	ntify th	e principles of restoration of functioning ecosystems	
		8E.21	Restoration ecology including the role of climate, fire, soils, water, plants, and animals and their interactions	
		8E.22	Differences between active ecosystem restoration and "natural recovery"	
		8E.23	Development of species assemblies, the impact of agronomic species, exotic species	
8E.3	Arti	culate	ecological restoration planning, and its requirements and levels	
		8E.31	Legal and policy framework	
		8E.32	Domestic and global trends	
		8E.33	Purpose of restoration/reclamation planning	
		8E.34	Components of restoration/reclamation	
		8E.35	Strategic, tactical and operational planning levels	
8E.4	Develop restoration plans			
		8E.41	Stakeholder consultation	
		8E.42	Management objectives and constraints	
		8E.43	Actions used to attain different management objectives	
		8E.44	Resources required	
		8E.45	Basic restoration planning including access, silviculture, protection, monitoring, etc.	
		8E.46	Performance measurement criteria and methodologies	