Canadian Technology Accreditation Board

School:
Program Name:

TABLE 1 - Self Assessment Program Matrix

Step 1: Select five Program Strengths (5 + GC01 Technology Report) from the list below
Step 2: Identify one specific course that best represents each Program Outcome
Step 3: Complete the self-assessment Table by identifying the various courses that demonstrate coverage of the NTB
National Technology Benchmarks®
Extracted from [insert name of National Technology Benchmarks] NTBv2012

Column key (by Semester):

- Semester 1: Occupational First Aid level I - Transportation; FRST 111 (Forest Surveying); FRST 121 (Spatial Data); FRST 131 (Forest Botany); FRST 143 (Forest Hydrology & Riparian Management); FRST 151 (Forest Soils I); FRST 181 (Computer Applications); ENGL 115 (University Writing & Research)
- Semester 2: FRST 112 (Forest Inventory); FRST 122 (Photo Interpretation); FRST 132 (Forest Ecology I: Ecosystems & Silvics); FRST 144 (Forest Resources Administration); FRST 152 (Forest Soils II); FRST 162 (Fire Management); FRST 173 (Field Skills); FRST 182 (Geographic Information Systems); ENGL 204 (Business & Technical Writing); MATH 181 (Introduction to Statistics)
- Semester 3: FRST 201 (Reasearch & Communications); FRST 211 (Forest Measurements II); FRST 231 (Silviculture I); FRST 234 (Ecological Site Diagnosis); FRST 235 (Forest Ecology II: Ecosystems & Management); FRST 241 (Forest Resources Administration II); FRST 261 (Forest Harvesting Systems); FRST 271 (Forest Road Design); FRST 291 (Interior Field Trip); FRST 328 (GIS for Natural Sciences); FRST 351 (Forest Pathology)
- Semester 4: FRST 212 (Silviculture Assessment); FRST 233 (Silviculture II); FRST 242 (Integrated Resource Management); FRST 262 (Forest Harvest Planning); FRST 272 (Forest Road Planning & Design); FRST 282 (Information Technology); FRST 352 (Forest Entomology)

Program Outcomes (General Competencies):

#	Code	Description
1	GC01	Research, analyze, prepare, document, submit, and defend a Technology Report (Capstone Project) relating to a significant technology-related issue.
2	GC02.2	Apply the knowledge of statistical processes to resolve applied science or engineering technology problems.
3	GC03	Apply the current practices of project management to applied science and engineering technology projects consistent with the discipline requirements.
4	GC04	Apply the principles of physical and natural science.
5	GC05	Apply the knowledge of business/management principles, ethics, sustainability, contract law, codes and standards
6	GC06	Obtain and analyze data, and prepare and document data.
7	GC07	Utilize computer software, hardware and other technological tools appropriate and necessary to performance of tasks.
8	GC08	Apply knowledge of health and safety practices to minimize exposure to unsafe conditions and ensure a safe working environment for oneself and co-workers.
9	RR01	Forest Measurements: Design, prepare and conduct standard field measurements and sampling procedures to collect data for analysis and reporting using statistical principles.standard
10	RR02	Forest Operations: Assist in the preparation, implementation, and supervision of stand and operational plans such as forest road construction and management, cut block planning, harvesting and timber transportation to meet planning objectives and strategies.
11	RR03	Forest Protection: Identify forest heath hazards and risks and Prepare, implement and supervise assessment activities for hazard, fuel, pest, and disease. Recommend appropriate stand management strategies and activities to reduce risk from fire and losses due to damaging agents.
12	RR04	Silviculture: Collect, analyze and evaluate relevant data; prepare plans and reports for artificial and natural stand establishment.
13	RR05	Resource Planning and Management: Interpret legislative directives that define resource values and assist in the development and evaluation of land or resource use plans.
14	RR06	Ecological Systems: Interpret legislated directives for land use priorities in sensitive areas. Classify ecosystems and assist in the development and evaluation of ecosystem restoration plans.
15	RR07	Geographic Information Systems: Evaluate, query and interpret digital geospatial data using modern software and hardware tools.
16	RR08	Wildlife Resources Management: Collect, analyze, and evaluate relevant wildlife resource data; prepare plans, reports, and monitor for wildlife resource management.
17	RR09	Fisheries/Aquatic Environmental Management: Collect, analyze, and evaluate relevant Fisheries or aquatic environmental management data; prepare plans and reports and monitor for fisheries or aquatic resources.
18	RR10	Range Management: Assist in the planning and directing of range utilization, consistent with other uses and conserving natural resources
19	RR11	Park Management and Safety: Assist in the preparation, planning, and implementation of Management and operational plans such as preservation and maintenance of recreational values and the preservation of natural and unique ecosystems, species, and features including cultural heritage within a protected area designation.
20	RR12	Recreational Land Management: Assist in the development of planning and management through environmental evaluation of the natural environment. This includes the preservation and maintenance of recreational values and the preservation of natural and unique ecosystems, species, features and cultural heritage.
21	RR13	Aboriginal Resource Management: Incorporate native cultural values with Land Management practices by describing aboriginal title, sovereignty, First Nations governance, and treaty processes. Collect, analyze, and, evaluate relevant data for a Traditional Use study.
22	RR14	Environmental Law: Interpret and evaluate Canadian Environmental Law and policy for defined jurisdictions.
23	RR15	Forest Hydrology: Design, prepare and conduct measurements and sampling procedures to collect hydrological data for analysis and reporting.

Code	OFA	F111	F121	F131	F143	F151	F181	E115	F112	F122	F132	F144	F152	F162	F173	F182	E204	M181	F201	F211	F231	F234	F235	F241	F261	F271	F291	F328	F351	F212	F233	F242	F262	F272	F282	F352
GC01																			◆													◉				
GC02.2									□									□	◉	◉												◉				
GC03		□							□										□	□					□	□					□	◉	◉			
GC04		□	□	□	□	□			□		□		□	□	□				□	□	□	□	□		□	□				□	□	□	□	□	□	□
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GC06		□			□	□			□		□		□	□	□			□	◉	□	□	□	□		□	□				□	◉	□	□	□	□	□
GC07			◉						□										□	□			□					◉	□		□				◉	□
GC08	◉	◉							□					□	□				□		□	□			◉	□	□			□	□	□	□	□		
RR01		PRE							PRE									PRE	◉	◆										◉						
RR02		PRE	PRE												PRE										PRE	□					□	◆	◉	◉		
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