



NORTH ISLAND COLLEGE



NIC

COASTAL FOREST TECHNOLOGY

FIND YOUR NORTH

VIEWBOOK
2023/24
ACADEMIC YEAR

Campbell River Campus

RESOURCE TRADES

Programs

Aquaculture Technician Certificate	4 MTS
Aquaculture Technician Diploma	7 MTS
Coastal Forest Worker Certificate	4.5 MTS
Coastal Forest Technology Diploma	2 YRS
Hatchery Operations Certificate	4 MTS
Mineral Exploration Field Assistant Micro-credential	13 WKS
Principles of Ecosystem Stewardship Micro-credential	9 WKS
Resource Field Assistant Micro-credential	12 WKS
Shellfish Aquaculture Technician Certificate	VARIES
Underground Mining Essentials Certificate	4 MTS

What You'll Learn

- You will learn how to manage and responsibly resource management, while gaining knowledge in occupational safety, environmental and field skills



Your possible career path opportunities — Total job openings between 2021-31*

FORESTRY, LOGGING
AND SUPPORT ACTIVITIES

4,600

MINING, OIL AND
GAS EXTRACTION

7,700

AGRICULTURE
AND FISHING

7,400

*BC Labour Market Outlook 2021-2031 Forecast



Industry & First
Nation Program
Advisory

Carihi Secondary

Pathways

Certificate Pilots:

2019 - Huu ay aht First Nations PA

2020 – Holmaco First Nation CR

2020 Launch of tuition based
programs

COASTAL FORESTRY PROGRAMS



Start here



Put down roots in the industry

COASTAL FOREST WORKER CERTIFICATE

New to forestry and not sure how to begin?

The Coastal Forest Work Certificate will introduce you to core skills and knowledge in silviculture, harvesting, occupational safety, surveying, timber cruising and grading, preparing you for a wide range of entry-level positions within the forestry sector. **Earn your credential and gain credits towards the Coastal Forest Technology Diploma.**

Where: Campbell River

Length: 4.0 months

Delivery: On-campus and digital (blended)

COASTAL FOREST TECHNOLOGY DIPLOMA

Prepare yourself for a career in the BC forestry sector with a two-year program that keeps pace with the latest practices and technologies in the industry. You'll start with the basics and advance to intense applied and experiential learning. Potential career opportunities and pathways are wildfire specialist, forest health surveyor, forest engineer, silviculturist, GIS analyst, forest protection officer and more. Graduates of the program will also be on the path to qualifying to become registered forest technologist.

Where: Campbell River

Length: 2 years

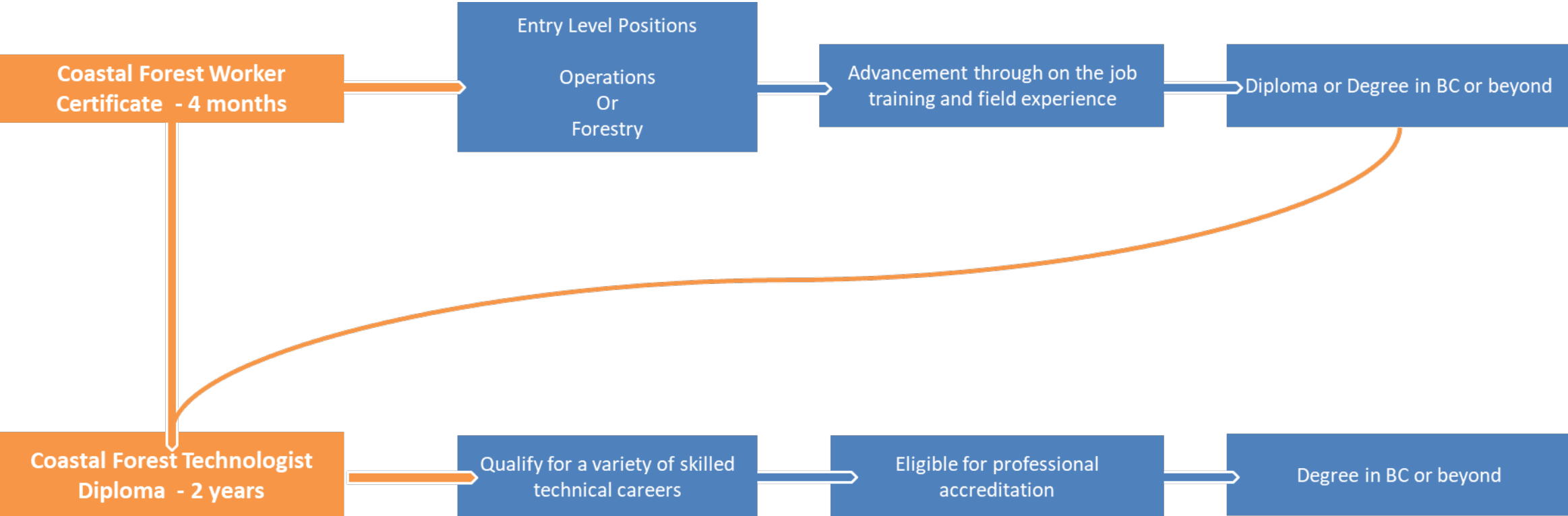
Delivery: On-campus and digital (blended)

Designed to meet specific needs...

- BC's Forestry Sector Training Needs, focusing on Industry need for Fundamentals of Forestry Training
- Increase regional training opportunities
- Increase Indigenous participation in forest sector workforce
- Provide cross-over skills and multiple pathways



Different but equally valuable paths



Focus management & how
management differs between
tenures

FL/NRFL

BCTS

FLTC

FNWL

WL

CFA

TFL





Woodlots - Rooted in Education

W1611 - Retention Trials & Hand Falling)



Woodlots - Rooted in Education

(W..... – silviculture
prescription exercise)



Majors- Rooted in Education

WFP – Karst / Hydrology



Timberwest/Mosaic
– silv trials



BCTS – engineering & mechanical
harvesting

Instructional Model

Professionals teaching professionals

COASTAL FOREST INSTRUCTORS



COLEEN MACLEAN MARLOW,
RPF, MEM

Program coordinator Coleen MacLean-Marlow is a registered professional forester. She worked with School District 72, industry partners and Indigenous advisors to co-develop and deliver NIC's Coastal Forest Worker certificate pilot program in Port Alberni. She was also instrumental in developing NIC's new Coastal Forest Technology Diploma. Coleen has worked in forestry for 32 years, in both industry and private practice and earned her master's degree in environmental and management in 2018 from Royal Roads. She and her husband manage a family run woodlot licence on Quadra Island and she is the director for the North Island Woodlot and Federation of BC Woodlot associations.



MELISSA DINSDALE, P. Geo

As a professional geoscientist, Melissa's career focuses on terrain and landslide risk, analysis and hazard mitigation, sediment delivery analysis, resource road design, and Karst Field Assessments for clients within the forestry sector on Vancouver Island and throughout B.C. She holds a Bachelor of Science degree in Environmental Geosciences from Simon Fraser University, with additional coursework completed at Vancouver Island University adding to her strong academic background in geomorphology, particularly within glaciated terrain. Melissa's perpetual yearning for knowledge has led her to recently pursue a diploma in ecosystem science ecological restoration. Melissa is also an avid outdoors person and loves just about any hobby.



TAISA BROWN, RPF

Taisa Brown has worked in forestry across Canada for major licensees, government and small contractors. For the past decade, she has worked as a silviculture forester in the Campbell River and Mainland Coast areas. She has a strong background in site plans, basic and incremental silviculture activities, project management, performance assessments and environmental certification. Outside of work, Taisa enjoys backpacking, sea kayaking, skiing and snowshoeing. She is also a cub scout leader, a director with the Campbell River Forestry Education Association and works as a master corporal with the Gold River Canadian Ranger patrol.

Instructional Model

Professionals teaching professionals



RITCHEY IVANS, RFT, BCAS

Ritchey Ivans is a registered forest technologist and a provincial accredited surveyor. For the past three decades, he has worked for consulting firms on Vancouver Island and the mainland. His experience is a combination of all forestry disciplines with an emphasis on silviculture surveying. Currently, he is the field supervisor and surveyor with Silver Fir Forest Resource Consultants Ltd. In addition to his supervisor role, he provides training in silviculture surveys, forest health and basic forestry field skills, which includes introduction to forest engineering and timber cruising. Ritchey has also taught forest measurements and silvicultural survey digital data collection at Vancouver Island University.



TIMOTHY SOBEY, MSCF, RPBio

Timothy comes to NIC with a Master of Science in Forestry, and an Honours Bachelor's in Environmental Management, specializing in wildlife management. Timothy is also certified as a registered professional biologist. His expertise spans several industries, including forest resource analysis, consulting, statistics, research and academia. Some of Timothy's work portfolio includes assessing habitats of a variety of wildlife, lecturing in statistics and building, managing research projects and working as a biologist/forester in Campbell River. Timothy has worked alongside various stakeholders, such as government, public stakeholders and First Nations, allowing for a firm understanding of the demands on natural resources and long-term sustainability.

MATTHEW NEUWIRTH

As a registered forest technologist, Matthew's expertise is in forest engineering, harvesting, road construction, Karst surveying/assessments and watershed renewal. For the past ten years, he has been working in various roles in the Port Alberni area and is currently a member of the Association of British Columbia Forest Professionals. Matthew has an infectious enthusiasm for everything forestry and uses his passion and high energy to motivate and engage his students.

Instructional Model

Professionals teaching professionals



BEN BOGHEAN, RFT

Ben grew up on a farm in Alberta with dreams of being an accountant during the week and a rodeo clown on weekends. But as a child, he would spend time visiting his grandparents on Vancouver Island and developed a love for the forests. Ben pursued a career in wildfire management starting with a helicopter attack crew in Alberta and soon after enrolled at Vancouver Island University in the Forest Technician Diploma program. Ben worked at the Hinton Training Centre and became a registered professional forest technician. He moved to Campbell River to work at the Quinsam firebase. Ben has worked with Wildfire BC, Emergency Management BC, as well as with GIS corporations on earthquake and disaster relief work.



**ANDREW SMITH,
GIS PROFESSIONAL**

Andrew has worked in the natural resource industry for over 15 years. He began his career as a forestry technician before heading back to school to pursue an advanced GIS diploma. He has since worked in forestry, mining, habitat modeling, LiDAR data collection, development, analysis, GIS coordination and systems development. More recently, Andrew has been working with unmanned aerial vehicles (UAV's) and other remote technology for GIS use. Working in GIS within the natural resource industry has given Andrew the opportunity to manage large projects and teams, as well as work one-on-one with clients on individual projects around BC and the world.



CYNTHIA LU, MA, RPF, P.Ag.

Cynthia is a forestry consultant based in Campbell River. She works across Vancouver Island, the Sunshine Coast and Central Coast in stand level forest planning and management. Additionally, she holds a Master of Arts in Conflict Analysis and Management from Royal Roads University. Over the past year, Cynthia co-developed a new online training module —Introduction to Conflict Management for ABCFP trainees, which will be available in 2022. Cynthia is also a part-time member of the Forest Appeals Commission.

Instructional Model

Professionals teaching professionals



JARRET LONTAYO, RPF

Jarret was born and raised in Campbell River. He was once enrolled at NIC, prior to being accepted into the Forest Technician Diploma program at Vancouver Island University. After gaining experience working for licensees and consulting firms on the coast, Jarret decided to enroll at the University of British Columbia in pursuit of becoming a professional forester. While attending UBC, he was a teacher's assistant for multiple forest operation courses. Now a recent registered professional forester in 2022, he uses his knowledge and skills gained from field and educational experiences to practice forest engineering and environmental based management for a consulting firm based out of Campbell River.



JOHN SOMOGYI-CSIZMAZIA

John is a professional archaeologist and instructor at NIC. He received his BA and Cultural Resource Management Diploma from the University of Victoria. He also completed his MA at Royal Roads University. John is trained as a forensic field investigator through the Physicians for Human Rights program in Florida and Texas. As a cultural heritage specialist, John has been involved in cultural resource management for 30 years working all over the world. He has also worked with many First Nation communities in BC conducting heritage assessments and traditional use studies. John sits on the Heritage BC board of directors and is a member of the Canadian Archaeological Association and the Archaeological Society of BC. He is also involved with the Salish Sea Initiative.



Course Code	Course Title	
RFT 100	Intro to Forestry	Cynthia Lu
RFT 101	Indigenous Lands & Culture	John Somogyi
RFT 102	Health & Safety	Matt Neuwirth
RFT 103	Tech & Data management	Coleen MacLean
RFT 104	Plant Identification and Classification	Timothy Sobey
RFT 105	Harvesting	Matt Neuwirth
RFT 106	Introduction to Timber Cruising	Ritchey Ivans
RFT 107	Workplace Readiness Skills	Coleen MacLean
RFT 108	Engineering	Matt Neuwirth
RFT 113	Technical Math for Forestry	Timothy Sobey

Course Code	Course Title	
RFT 110	Technical Communication	Timothy Sobey
RFT 111	Forest Soils and Geomorphology	Melissa Dinsdale
RFT 112	Intro to GIS	Andrew Smith
RFT 114	Forest Hydrology and Riparian Management	Melissa Dinsdale
RFT 115	Ecosystem Science	Cynthia Lu
RFT 116	Forest Measurements and Sampling Techniques	Ritchey Ivans
RFT 117	Statistical Analysis for Forestry STA-115 Introduction to Statistics (3 Credits)	Timothy Sobey

1st Year



Course Code	Course Title	Instructor
RFT 200	Forest Health and Adaptation	Ritchey Ivans
RFT 201	GIS and Remote Sensing	Andrew Smith
RFT 202	Cultural Heritage Resource Management	John Somogyi
RFT 203	Silviculture	Taisa Brown
RFT 204	Forest Engineering	Matt Neuwirth
RFT 205	Professional Communications and Protocols	Cynthia Lu
RFT 214	Applied Research Project	Coleen

Course Code	Course Title	Instructor
RFT 206	Forest Operations Planning	Matt Neuwirth
RFT 207	Wildlife Ecology	Timothy Sobey
RFT 208	Sustainable Forest Management	Cynthia Lu
RFT 209	Data Management and Analysis	Coleen MacLean
RFT 210	Wildfire Ecology	Ben Boghean
RFT 211	Silvometrics	Kathi Davis
RFT 213	Resource Road Design	Matt Neuwirth
RFT 214	Applied Research Project	Coleen

2nd Year



Questions?
