



8<sup>TO</sup>  
10

# Charting a Course for Work in Trade & Transportation

**In this lesson, students learn about the concept of a career roadmap and the various routes that might be taken towards the same job or career goal. Working in small groups, students select a port-related job and, assuming the role of career advisors, research possible education, training and work experience routes to that job. They present the findings of their research as a visual roadmap. The lesson is informed by the big idea of Interconnectedness.**

## CLASSROOM TIME REQUIRED

1-2 instructional sessions of 40-50 minutes, plus 2-3 sessions for the student-directed research project

## LEARNING OBJECTIVES AND OUTCOMES

Students will:

- Research and gain an understanding of local career options that are directly related to activity that is sustained by the Port of Prince Rupert
- Identify the education, experience, skills and personal attributes required to do a specific port job
- Use a range of information sources about careers, education and training
- Summarize career and labour market information
- Learn about and develop a career roadmap
- Identify different possible routes to a career goal and assess the pros and cons of each route

## MATERIALS REQUIRED

- *Port-Related Jobs and Careers* resource (see *Attachments* below)
- *Great Canadian Online Resources for Researching Careers* resource (see *Attachments* below)
- Optional: a visual career roadmap detailing your own education/training and career path
- Drawing/art materials (paper, pens, markers, crayons, etc.) for students who choose to create their career roadmap manually

## TECHNOLOGY RESOURCES REQUIRED

- Computer and projector or Smart Board
- Internet access for student research
- Access to word processing/design software for students who choose to create their career roadmap electronically

## TEACHER PREPARATION

- Prepare the Google Maps “directions search” between two points in the local community, ensuring that the point of departure and destination chosen result in two or more possible routes.
- Set up computer and projector or Smart Board to show the Google Maps search.
- Optional: prepare a visual roadmap of your own education/training and career pathway (see Activity 2 below for details)

## CRITICAL VOCABULARY (see Glossary for definitions)

Bunker Fuel Analyst	Environment Canada Officer	Port Authority Manager
Captain	Environmental Engineer	Project Manager
Cargo Superintendent	Fisheries Habitat Officer	Public Relations
Coast Guard Officer	Firefighter	Safety & Security Officers
City Planner	Gantry Crane Operator	Shipping Agent
Civil Engineer	Health Canada Officer	Stevedore
Claims Adjustor	Insurance Agent	Transport Canada Marine Safety Officer
Construction Worker	Longshore Worker	Tug Boat Operator
Crane Operator	Machinist	Translator
Customs Broker	Marine Engineer	Truck Driver
Customs Officer	Marine Pilot	Vessel Traffic Officer
Dock Supervisor	Mechanic	Warehouse Supervisor
Electrician	Meteorologist	

## LESSON DEVELOPMENT

### Activity 1

- This activity uses Google Maps to introduce the notion of roadmaps – and different routes to a destination – as a metaphor for planning and reaching career goals.
- Using a Smart Board or a computer and projector, show students a Google Maps “directions search” between two places in Prince Rupert. The point of departure and the destination should allow for Google Maps offering a number of alternative routes. (A screen shot of one possible example may be found in *Attachments* below.)

- Lead a discussion with the students about the different possible routes between the point of departure and the destination, clicking on the different routes to show them visually:
  - Tease out the differences between taking a direct route (shorter, faster) and choosing a more circuitous route (longer, but more varied).
  - Ask the students what the journey would offer if they chose to walk or cycle rather than drive. How would the experiences of the journey be different?
  - What priorities would lead to choosing which route and transportation method?
  - What kinds of preparation does each route and transportation method require on the part of the traveller?

## Activity 2

- Explain that the roadmap is a useful metaphor for thinking about career planning. Like the Google Maps directions tool that offers several routes to the same destination, there are often multiple ways of arriving at the same career or work goal.
- Explain that the different possible routes will have different benefits and challenges. You might suggest to students, for example, that for some careers, university represents the direct route to a specific job, though a person might also arrive at the same job via a more circuitous route – travel, perhaps, followed by college and relevant work experience, or by working his/her way up through an organization.
- Take a few moments to talk about your own life and career path, with the idea that this will give your students background knowledge to help them think about possible roadmaps to a career goal.
- Optional: Create your own roadmap ahead of time, sharing major events and accomplishments, including graduations, travel, recognitions, and more.

## Activity 3

- In pairs or in groups of three, students select a new Port job/career from the list of *Port-Related Jobs and Careers* (see *Attachments* below).
- “In role” as career advisors supporting a young person who is interested in working in this career, students will research the job, develop a visual career roadmap that identifies at least two different routes to attaining the position, and present the roadmap to the class. The roadmap should cover:
  - What the student can do now to prepare for the career and to get relevant experience or develop skills;
  - Training and education options;
  - Required work experience;
  - Possible points of promotion/advancement along the career path; and
  - Approximate timelines for the different routes.

Students should also consider and make working notes on the benefits and challenges of the different routes that they have identified. (These may include, for example, length of time to attain goal, cost of university/college fees, diversity and breadth of experiences, recognition given to qualifications versus experience, etc.)

- You may wish to show students some examples of visual career roadmaps to inspire the design and format of their own. Doing a Google Image search on the keywords “Career Roadmap” brings up some varied and useful examples.
- Share with the students the list of *Great Canadian Online Resources for Researching Careers* (in Attachments below).

## ASSESSMENT

Lead students in the development of a rubric for the assessment of their roadmaps. Criteria could include:

- Completeness of the required information (as per the points above)
- Thoughtfulness and appropriateness of their identification of the benefits and challenges associated with each career pathway
- Clarity of presentation

In their pairs or groups of three, students present their career roadmaps to the class. Students explain the requirements of the desired job/position and talk through the different routes to the position that they have identified through their research. Students explain the benefits and challenges of each route.

## MODIFICATIONS

Students could identify a port-related job/career that they would like to do in the future and create a visual roadmap for their own job in the trade and transportation sector.

## EXTENSIONS

### **Interviewing a Local Person in a Port-related Job**

Help students set up an interview with someone whose work is directly related to activity that is sustained by the Port of Prince Rupert in the role that they have researched.

### **Presentation by a Local Person in a Port-related Job**

Invite someone whose work is directly related to activity that is sustained by the Port of Prince Rupert to come to talk to the class about his or her job. If one of the students has a family member or friend who works in a port-related job, find out if they can come in and give a talk.

## LESSON PLAN RESOURCES

Google Maps

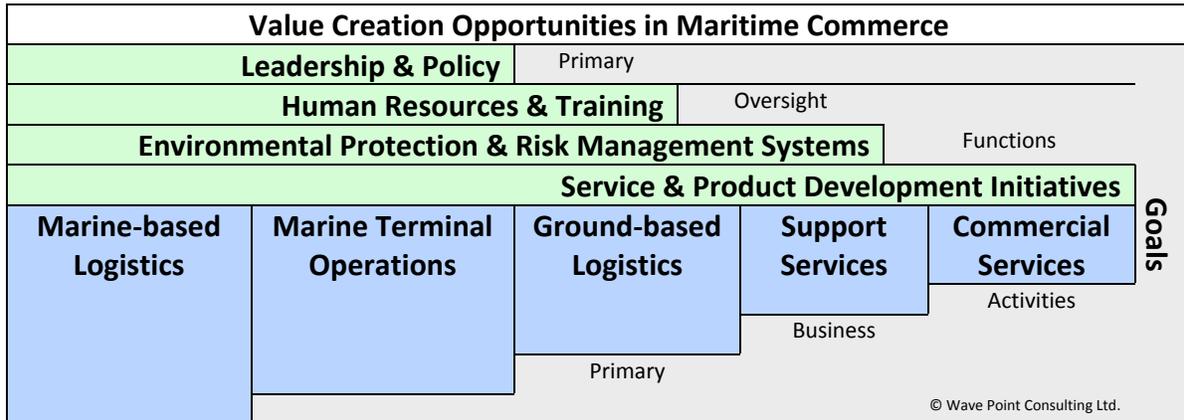
## ADDITIONAL RESOURCES

- Maher Terminals website
- Ridley Terminals website
- Port Authority of Prince Rupert website

## ATTACHMENTS (below)

- *Port-Related Jobs and Careers* resource
- *Great Canadian Online Sources for Researching Careers* resource
- Example Google Maps directions search

## Port-Related Jobs and Careers



Primary Oversight Functions		
Job Description	Role in Value Creation	Education &/or Training
Coast Guard	Environmental Protection & Risk Management	Coast Guard or Maritime College
City Planner	Leadership & Policy	University
Customs Officer	Risk Management	Canadian Border Service Agency Training
Environment Canada Officer	Environmental Protection & Risk Management	University
Fisheries Habitat Officer	Environmental Protection & Risk Management	University
Firefighter	Environmental Protection & Risk Management	Justice Institute of British Columbia
Health Canada Officer	Environmental Protection & Risk Management	University
Meteorologist	Environmental Protection & Risk Management	University
Port Authority Manager	Leadership & Policy	University
Transport Canada Marine Safety Officer	Environmental Protection & Risk Management	Coast Guard or Maritime College

<b>Primary Business Functions</b>		
<b>Job Description</b>	<b>Role in Value Creation</b>	<b>Education &amp;/or Training</b>
Bunker Fuel Analyst	Marine-based Logistics	Technical College or University
Captain	Marine-based Logistics	Maritime College, sea-time & government examine.
Cargo Superintendent	Marine-based Logistics	Technical or Maritime College
Civil Engineer	Marine Terminal Operations	University
Claims Adjustor	Commercial Services	Insurance & risk management
Construction Worker		Trades Training
Crane Operator	Marine Terminal Operations	Crane Operators Certificate
Customs Broker	Commercial Services	Canadian Society of Custom Brokers
Dock Supervisor	Marine Terminal Operations	Industry Experience
Electrician	Marine Terminal Operations	Trade Training
Environmental Engineer	Marine Terminal Operations	University
Insurance Agent	Commercial Services	Insurance Institute of Canada
Longshoreman	Marine Terminal Operations	High School
Machinist	Marine Terminal Operations	Trades Training
Mechanic	Marine Terminal Operations	Trades Training
Marine Engineer	Marine-based Logistics	Maritime College & government examine.
Marine Pilot	Marine-based Logistics	Marine Captain's License
Project Manager	Commercial Services	Project Management Institute
Public Relations	Commercial Services	University
Safety & Security Officers	Support Services	Technical or Maritime College, or industry specific training
Shipping Agent	Commercial Services	Technical College, University
Stevedore	Marine Terminal Operations	Trades Training, Technical College &/or University

Tug Boat Operator	Marine-based Logistics	Technical or Maritime College
Translator	Commercial Services	University
Truck Driver	Ground-based Logistics	Provincial Drivers License Requirements
Warehouse Supervisor	Ground-based Logistics	Technical College &/or University

## Great Canadian Online Resources for Researching Careers

**Career Edge** [www.careeredge.ca](http://www.careeredge.ca) – Connects job seekers with Canadian employers through paid internships

**Career Trek** [www.careertrekbc.ca](http://www.careertrekbc.ca) – interactive, BC-specific career exploration site (part of WorkBC)

**CareerVideos** [www.careervideos.com](http://www.careervideos.com) – offers more than 600 video insights into job and career choices, featuring real people at work

**Education Planner** [www.educationplanner.ca](http://www.educationplanner.ca) – BC-specific site for exploring and planning post-secondary training and education

**Research Your Chosen Career** [www.jobsetc.gc.ca](http://www.jobsetc.gc.ca) – Government of Canada “portal” to online career and job information

**TalentEgg** [www.talentegg.ca](http://www.talentegg.ca) – tools and resources for students and grads transitioning from school to work

**VECTOR** [www.vector.cfee.org](http://www.vector.cfee.org) – Video Exploration of Careers, Transitions, Occupations and Realities

**WorkBC** [www.workbc.ca](http://www.workbc.ca) – Government of British Columbia site for learning about careers and jobs, training and education, and labour market information

**Working in Canada** [www.workingincanada.gc.ca](http://www.workingincanada.gc.ca) – Federal site containing career and labour market information and video sources

Google

Sign in

Fairview Terminal, 2 Avenue West, Prince Rupert, BC, Canada

Get directions My places

**Suggested routes**

<b>Trans-Canada Hwy/Yellowhead Highway E/BC-16 E</b>	<b>1.5 km, 4 mins</b>
3 Ave W	1.5 km, 5 mins
2 Ave W and 1 St	1.6 km, 6 mins
Or Walk	17 mins

**Driving directions to Cowpuccino's Coffee House**

**Highliner Plaza Hotel & Conference Centre**  
 815 1 Ave W  
 Prince Rupert, BC V8J 1B3, Canada

1. Head northeast on 1 Ave W toward 7 St

1000 ft  
 200 m

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