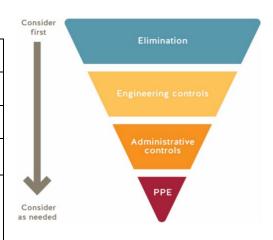


The BCIT COVID-19 Go-Forward Plan outlines the risk assessments, control measures, and the organizational process for our safe return to campus. All returning programs/courses must adhere to this process. Please refer to the <u>BCIT COVID-19 Go-Forward Plan</u> for additional information.

### **CONTACT INFORMATION**

Course/Program Name:	Simulated Electronic Navigation – Operational (SEN-O) and – Managerial (SEN-M)									
Proportion of program offered on campus:	100% on campus									
Start date:	Ongoing		End date:	ongoing						
# of students:	7		# of employees:	2 (1 Faculty and 1 Simulator Technician)						
Completed by:	Name Emily Lacanilao Sam Susanthan Mujeeb Siddiqui Manik Rudrakumar Marc Soer	Position JOHSC member/A JOHSC member/F Faculty Faculty JOSHC member/P Technician, BMC	aculty	Date November 26, 2020						
Reviewed by JOHSC members: Replaces	Philip McCarter Carl Marquardt Serhat Beyenir Jeff Otto RTC Safety Plan #:	Associate Dean Department Head Department Head Co-op Education (								
	GFP Safety Plan #:	23								



### **ROOM INFORMATION**

In this section, please identify all of the rooms that will be used by this returning program/course.

NOTE: Common areas are covered by the BCIT COVID-19 Go-Forward Plan.

Campus/ Building	Room Number Floor Plans found here	Type of Space Include washrooms and breakout rooms	Capacity Current capacity due to COVID-19
BMC	BMC-245	Classroom	max occupancy 2 people
BMC	BMC-245B	Bridge simulator	1 person without PPE; 2 people with PPE
BMC	BMC-245C	Bridge simulator	1 person without PPE; 2 people with PPE



ВМС	BMC-245E	Bridge simulator	1 person without PPE; 2 people with PPE
BMC	BMC-245F	Tag/Bridge simulator	1 person without PPE; 2 people with PPE
BMC	BMC-260	Classroom	max occupancy 2 people
BMC	BMC-260B	Bridge simulator	1 person without PPE; 2 people with PPE
BMC	BMC-260C	Bridge simulator	1 person without PPE; 2 people with PPE
BMC	BMC-260D	Bridge simulator	1 person without PPE; 2 people with PPE
BMC	BMC-252	Classroom	10 people
BMC	BMC-259	Washroom	1 person
BMC	BMC-216	Washroom	1 person
BMC	BMC-217	Washroom	1 person

#### RATIONALE FOR ON-CAMPUS ACTIVITY

Please provide a short description explaining the need for students to be on campus. Your narrative should be focused on the practical elements of the program or activity that are critical to achieving learning outcomes, and why on campus components cannot be replicated in an online or alternative environment (e.g. student bringing learning equipment home).

SEN-O course provides hands-on training with the use of simulator equipment. Simulator settings, close to the real-life scenarios, bridge the gap between theory and practice by providing the student with the required skill set to apply the Collision Regulations, and the principles to be observed in keeping a safe navigational watch. It is not feasible to deliver the course online.

To update GFP #23

Academic space(s) required to deliver SEN-M with one student per cubicle. Student to be made aware they have more duties to complete and demonstrate. Autopilot can be used.

Classroom BMC-252 to be used as back up for synchronous delivery of NS, ME, BWR, and Upgrader courses, as required by Transport Canada.

### **CONTROL MEASURES**

### **COVID-19 SAFETY PLAN: CONTROL MEASURES CHECKLIST**

### **Directions for completing a Safety Plan:**

- 1. First step of this process is to review the <u>BCIT COVID-19 Go-Forward Plan</u> as the overall planning document for this process.
- 2. Use this checklist as a tool to assess COVID-19 control measure preparedness for students and employees and the spaces they will be using. Refer to the BCIT COVID-19 Go-Forward Plan for standardized safety guidelines and procedures.
- 3. For each control measure, state the details. If the control measure is a 'No' or 'NA', please provide a brief explanation.

SSEM, OHS Division COVID-19 Safety Plan Date: July 21, 2020 Page 2 of 9



- 4. The manager requests all PPE requirements by submitting this draft Safety Plan to the PPE@bcit.ca.
- 5. Implement all the safety measures in this Safety Plan.
- 6. The manager completes a site visit to ensure all control measures and safety supplies are in place.
- 7. The manager signs the completed Safety Plan and submits it to <a href="mailto:returntocampus@bcit.ca">returntocampus@bcit.ca</a> for approval.
- 8. Once approved, the COVID-19 Safety Plan is posted in all work areas identified within this plan.

Note: The workspaces cannot be used until all applicable control measures are in place and Safety Plan is approved. For additional resources the <u>Risk</u> <u>Assessment Controls Guidance and Hierarchy of Controls</u>. For assistance email <u>ssemohs@bcit.ca</u>.

#	Control Measure	Yes	No	NA	Details (as per Directions)					
ELIN	ELIMINATION									
1.	Room(s) set up to allow for 2 metres physical distancing during instruction and practice.  Note: Contact returntocampus@bcit.ca for room capacity and layout if needed.				Classrooms set up allows physical distancing of 2 meters and will be priority when students are performing practical component of the course. Faculty will make all efforts to provide remote instructional support. <b>Exception:</b> in rare cases that a physical distance cannot be maintained, and all other options are exhausted, faculty and students will use PPE (face mask and face shield) and immediate hand washing/sanitizing after close contact will be mandated. WorkSafe pictograms placed next to the PPE provides guidance on the use of facemasks. Faculty should wash/sanitize their hands immediately prior and after touching the station.  BMC-245/260/252					

SSEM, OHS Division COVID-19 Safety Plan Date: July 21, 2020 Page 3 of 9



#	Control Measure	Yes	No	NA	Details (as per Directions)
					BMC-252 for the purpose of an orientation instruction with AV (item 1 in RA)  BMC-245 sub-rooms, BMC-260 sub-rooms assigned one per student
2.	Demonstration, work and assessment stations are set-up to allow for 2 metres physical distancing.				For the Simulator Technician support, student/faculty should leave the workstation to allow technician to assess it. Simulator technician to wash/sanitize hands immediately prior and after touching the station.  There will be times when faculty or TpC examiner will need to visit the cubicles when the student is present. All participants are required to wear PPE (face mask and face shield) and immediate hand washing/sanitizing after close contact will be mandated.
3.	Identified area(s) where students wait outside of teaching space until allowed inside by instructor.				Students line up in the waiting area outside of the classrooms, as marked on the floor, and follow instructions from faculty. Maintain 2 m distancing when entering classroom.
4.	Work has been scheduled to minimize numbers of individuals on campus at one time.	$\boxtimes$			Only 7 students are allowed for the all 7 simulators at a time.
5.	In shared spaces, safety protocols have been put in place to reduce close contact between users.	$\boxtimes$			
6.	Movement within the room is identified, such as with directional arrows, for walkways and entrances/exits.	$\boxtimes$			Signs or arrows on the floor identifying directions. X marked on the floor by the doors so students/faculty entering and leaving the room can see if anyone else is coming to avoid collision.
7.	Water fountains are put out of service, and only touchless water bottle filling station available.				

SSEM, OHS Division COVID-19 Safety Plan Date: July 21, 2020 Page 4 of 9



#	Control Measure	Yes	No	NA	Details (as per Directions)							
8.	Mobile fans have been removed or put out of service.	$\boxtimes$										
7.	Washrooms have been identified.	$\boxtimes$			If yes, Washroom occupancy limit1 per washroom							
8.	Break area(s) for student use have been identified.				No break area at this point. Students are encouraged to go outside of the campus.							
9.	Break areas for employee use have been identified.	$\boxtimes$			Staff may take breaks off campus or use approved faculty offices/common areas.							
10.	Other:			$\boxtimes$								
ENG	ENGINEERING CONTROL MEASURES											
11.	Barriers are implemented to separate work areas or walk ways, when physical distancing not practical.				Each student will be assigned to an individual simulator room/desk/work station. All classroom set up allows for 2 m physical distancing.  An orientation instruction, debriefing and reviewing with AV will take place in the classroom BMC-252.							
12.	Barriers are stable and do not introduce other safety hazards, e.g. tripping.				No barriers							
13.	The impact on ventilation requirements have been considered if			$\boxtimes$	There is no significant use change for the instructional space							
	there's been a significant use change for the instructional space.											
	Other:											
SIGN	IAGE (ADMINISTRATIVE) Signage is available @ <u>BCIT onlin</u>	ne Inve	ntory.	Guid	elines for posting signs are available on <u>ShareSpace</u> .							
13.	Posted: Physical distancing (2 m) sign(s) Item 1A	$\boxtimes$										
14.	Posted: Hand washing sign(s) Item 29B	$\boxtimes$										
15.	Posted: Health screen sign(s) Item 3C	$\boxtimes$			At 1 <sup>st</sup> floor main entrance by parking lot							
16.	Posted: Hand washing sink location sign(s) Item 14A	$\boxtimes$			Hand washing sink location signage posted by the door							
17.	Posted: Hand sanitizing station location sign(s) Item 13A	$\boxtimes$			Hand sanitizing station location signage posted by the door							
18.	Posted: Protect yourself sign(s) Item 21A	$\boxtimes$										
19.	Posted: Occupancy limit of this room sign(s) Item 37A	$\boxtimes$										
20.	Posted: Other signs				Please list:							
ORIE	NTATION AND TRAINING (ADMINISTRATIVE)			T								
21.	Routine safety discussions held to review control measures and safety protocols.											



#	Control Measure	Yes	No	NA	Details (as per Directions)
22.	All students have completed the online COVID-19 Pandemic On-Campus Guidelines training.				How will compliance be checked: All students will send certificate of course completion to the BMC Program Assistants. PAs will update Faculty with the status on the course completion. On the first day of the course, Faculty will require students who missed sending the confirmation to provide the certificate or complete the course prior to entering the classroom.
23.	COVID-19 safety Site orientation for students has been developed and posted in the Learning Hub.				Procedure for orientation found <a href="https://www.nee">here</a> .  Student COVID-19 Orientation Checklist found <a href="here&lt;/a">.  Instructors will conduct the orientation onsite before class starts, scan a copy of the completed checklist to the Department Head, post it in the classroom and discard after course ends.</a>
24.	All employees have completed the online <u>BCIT Pandemic</u> <u>Exposure Control Plan Training</u> .				
25.	All employees have completed the online New Employee Orientation module.				New and Returning Employee Orientation Checklist found <u>here</u> .  Each employee to save the checklist to their online New Employee Orientation course
26.	Other:			$\boxtimes$	
RULE	ES AND GUIDELINES (ADMINISTRATIVE)				
27.	All unnecessary and self-serve items have been removed from the spaces. e.g., pens, paper, etc.				All supplies asked for prior to class and stocked at each workspace
28.	Doors that students are to use to enter and exit have been clearly identified.	$\boxtimes$			Keep entrance/exit doors open to limit the number of frequently touched surfaces.
29.	Handouts, papers, and items are not physically provided to students.				If items are provided, they are cleaned between student use or disposed. Faculty will sanitize their hands and distribute required materials prior to the class. Keep paper handling to a minimum.
30.	Students have dedicated tools/equipment, e.g., items are not shared between students.				
31.	If cleaning common touch points or tools/equipment not practical, then it is identified when hands are washed/sanitized before and after use.				Best custodial is required to clean and sanitize equipment/surfaces (e.g. desk, chair, keyboard, mouse, speakers, paper charts) after the class but before the next class.  Cleaning & disinfecting products should be chosen out of approved and listed on the Health Canada website.
32.	Work spaces/stations are dedicated for an individual or group use and not shared with others.				Students are to be allocated a desk and cubicle for the duration of the course including TpC exam.
33.	Single-use (disposable) products are used where feasible.	$\boxtimes$			
34.	Measures are in place to accommodate student sick at home.	$\boxtimes$			Accommodation plan: student contacts Faculty via email or phone to accommodate the course make up.

SSEM, OHS Division COVID-19 Safety Plan Date: July 21, 2020 Page 6 of 9



#	Control Measure	Yes	No	NA	Details (as per Directions)
35.	Procedures in place to screen students on a daily basis.				The <u>health screen</u> poster is available for reference and is posted on building doors.  Students and employees are expected to self assess daily, and the <u>BCCDC self-assessment</u> tool can be used to support this.  Faculty to remind student during class to self-screen daily. Admin Manager receives a daily e-mail from all staff coming to campus to confirm they have self-screened.
36.	There is a procedure in place if a student or employee becomes ill on campus.				Refer to the <u>COVID-19 Pandemic Scenario Playbook</u> for more information. If the person is reporting symptoms, ask them to avoid others and return home. If they require immediate medical attention, call First Aid and 911.
37.	There are procedures in place if a student or employee travels before coming to campus, or has been in close contact with someone who has tested positive for COVID-19.				Refer to the <u>COVID-19 Pandemic Scenario Playbook</u> for more information. Confirm if the person is aware of self-isolation <u>requirements</u> and <u>protocols</u> .
38.	Provisions made for students to maintain same lab/class cohort throughout the Term.				
39.	Other:	$\boxtimes$			Non-compliance is not an option. Any violation may result in the course being cancelled.
PERS	SONAL PROTECTIVE EQUIPMENT (PPE). Refer to the PPE F	lowcha	rt to d	eterm	ine what PPE is required for COVID-19 purposes.
40.	Appropriate PPE for the hazards of employee and student tasks are available to be provided (non-COVID-19 related ppe).			$\boxtimes$	List the ppe and tasks/activities it is required for, and provide the quantity and unit of measure, if applicable (e.g. 2 boxes of 20 each box):
41.	Training is provided for the above PPE to students and employees.			$\boxtimes$	
42.	Appropriate PPE for COVID-19 is available to be provided to students and employees. Supply requests emailed to ppe@bcit.ca.				Based on circumstances allowed for in the BCIT COVID-19 Go-Forward Plan, Risk Assessment Matrix Summary.  List PPE and tasks/activities required for and provide the quantity and unit of measure, if applicable (e.g. 2 boxes of 20 each box):  In rare cases Faculty will provide instructions to student in the simulator rooms where 2m social distance cannot be maintained.  PPE required:  - Facial masks for both Faculty and student  - Face shields for both Faculty and student  - Hand sanitizers to disinfect hands before and after touching equipment  - X1 Gloves – Size S, X1 Gloves – Size M, X1 Gloves – Size L, X8 Disinfectant Wipes canister of 60, X8 Alcohol Wipes, X8 Hand Sanitizer 500 ml bottle, X3 Disposable Masks box of 50, X3 Face Shields pack of 10
43.	PPE safe <u>donning</u> , <u>doffing</u> , <u>disposal</u> , <u>and disinfecting instructional</u> materials are available for students and employees.	$\boxtimes$			Post applicable signs in a visible location if ppe required.  Use the <u>Student Orientation checklist</u> to assist orientation/training by instructors.  Use the <u>Employee Orientation checklist</u> to assist orientation/training by their supervisors.
44.	Other:			$\boxtimes$	

SSEM, OHS Division COVID-19 Safety Plan Date: July 21, 2020 Page 7 of 9



#	Control Measure	Yes	No	NA	Details (as per Directions)		
CLEA	ANING						
45.	Facilities is aware of the cleaning needs for the area. Facilities work requests have been submitted.					sted on the door of the class. Cleaning includes frequency for the area. This includes high touch	
					Course/Program		
					Instructor's name		
					Number of students	8	
					Disinfection required	before 8:30 am and after 3:30 pm	
					00/00/20 (initials)		
					00/00/20 (initials)		
					00/00/20 (initials)		
					Required washroom	BMC-216, BMC-217, BMC-259	
46.	Training will be provided to faculty and students performing cleaning duties and cleaning materials have been provided.				Cleaning Standard Operating Procedures have been located <a href="here">here</a> . What are the cleaning products/materials:  What ppe is required:  Best custodial to perform cleaning duties after class but before next class. Refer to item		
47.	Assessment of sufficient number of hand wash stations conducted, and an appropriate number of handwashing stations are available				31.  Consider time it will take for hand washing to take place, to determine what is e.a. sufficient number of hand wash stations. Some areas find a ratio of 8:1, students to sink, effective. The minimum amount of hand washing required is once before class starts, after class ends and before and after breaks.		
48.	Handwashing station(s), stocked, easily accessed, and have been identified to students and employees.	$\boxtimes$			Sink Location: BMC-259, 216, 217 Stocked with soap Y $\boxtimes$ N $\square$ paper towel Y $\boxtimes$ N $\square$		
49.	Hand sanitizing station(s), stocked, and have been identified to students and employees.	$\boxtimes$			ABHS (Alcohol-Based Hand Sanitizer): Location(s) hand sanitizer is available in all listed classrooms		
					Will hand sanitizer be refilled by departm If No, describe: hand sanitizer bottles are		
50.	All Safety Data Sheets (SDS) and cleaning procedures used are found <a href="https://example.com/here">here</a> .				If not, describe:	, ,	
51.	The area(s) have been decluttered so that cleaning is simplified.	$\boxtimes$					



#	Control Measure	Yes	No	NA	Details (as per Directions)
52.	Barrier cleaning process has been arranged if the barrier(s) could become contaminated.				Barriers can become contaminated if they are a touch point or if they are contaminated with droplets by e.g. coughing or sneezing.  Best custodial to perform cleaning duties after class but before the next class. Refer to item 31.
53.	Common touch points and tools/equipment that must be shared are identified and cleaned between students and classes.				Cleaning/sanitizing procedures for common touch points and shared items are posted e.g. shared machinery, equipment, tools, etc. Identify who will clean and how often (e.g. staff and/or students):  Best custodial to perform cleaning duties after class but before the next class. Refer to item 31.  Students wipe off touch points after each exercise in the simulator lab.  Students sanitize their hands before and after the exercise in the simulator lab.
54.	Storage space for personal articles have been identified and are cleaned regularly.			$\boxtimes$	Lockers will not be provided to students.
55.	Other:			$\boxtimes$	
AUD	IT AND CONTINUOUS IMPROVEMENT				
56.	There is a plan to conduct <u>regular inspections</u> of all control measures and safety protocols to ensure they are in place.	$\boxtimes$			Ensure this COVID-19 Safety Plan is posted. Who will conduct these inspections and how often? BMC management, faculty and support staff will conduct inspections, weekly.
57.	Audits of inspections are planned to ensure that control measures continue to be effective.	$\boxtimes$			Who conduct the audits and how often? BMC OH&S committee, monthly.

### **APPROVAL**

All COVID-19 risk control measures for this campus activity are in place.								
Manager	Name Philip McCarter	Position Associate Dean	Date December 14, 2020					
EOC	Name Glen Magel	Position EOC Director	Date December 14, 2020					