

BIOSAFETY TRAINING GUIDE

Office of VP Research and Innovation

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Email : radbio@ontariotechu.ca

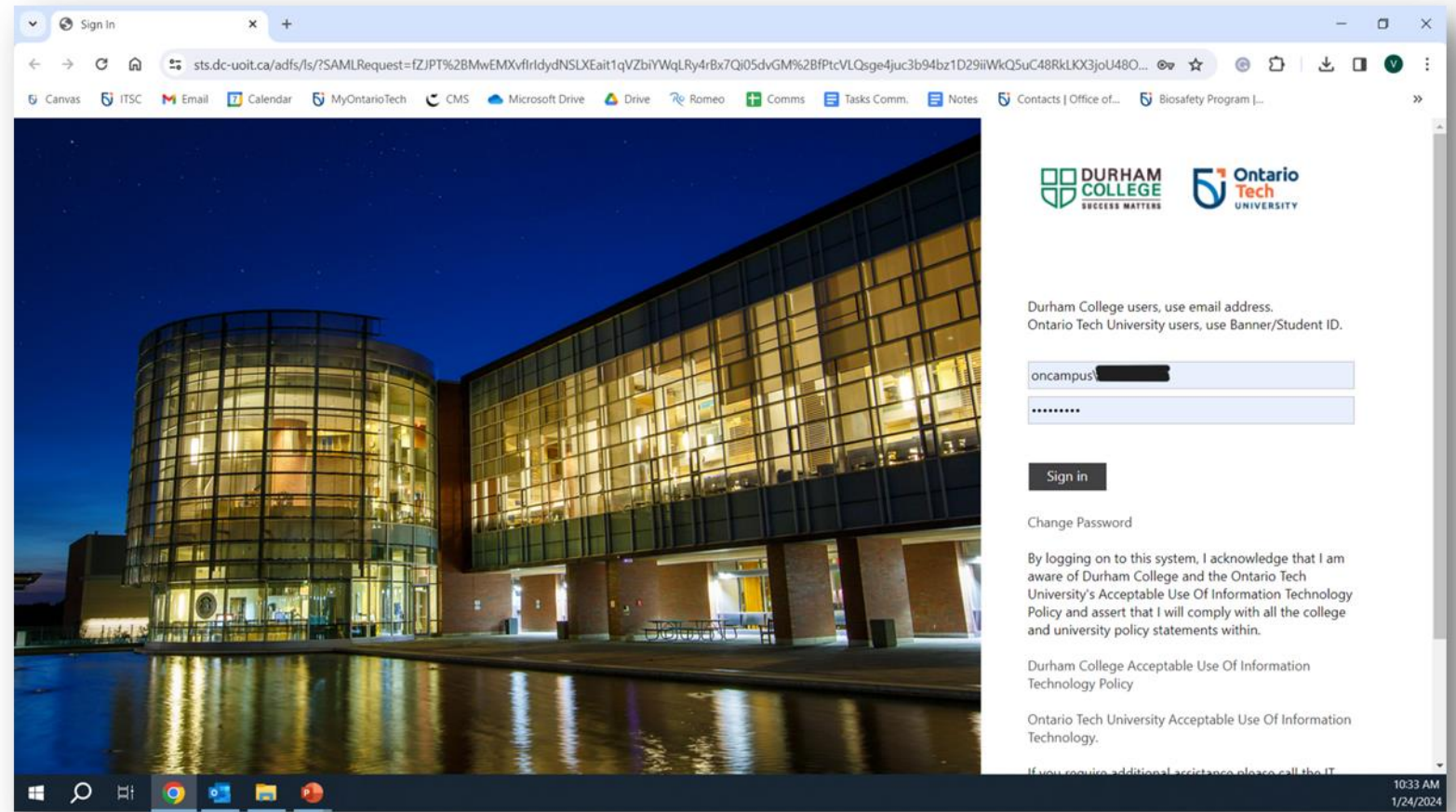


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 - [How to create a PHAC account?](#)
 - [How to upload PHAC certificates to Canvas?](#)

1. Log into Canvas

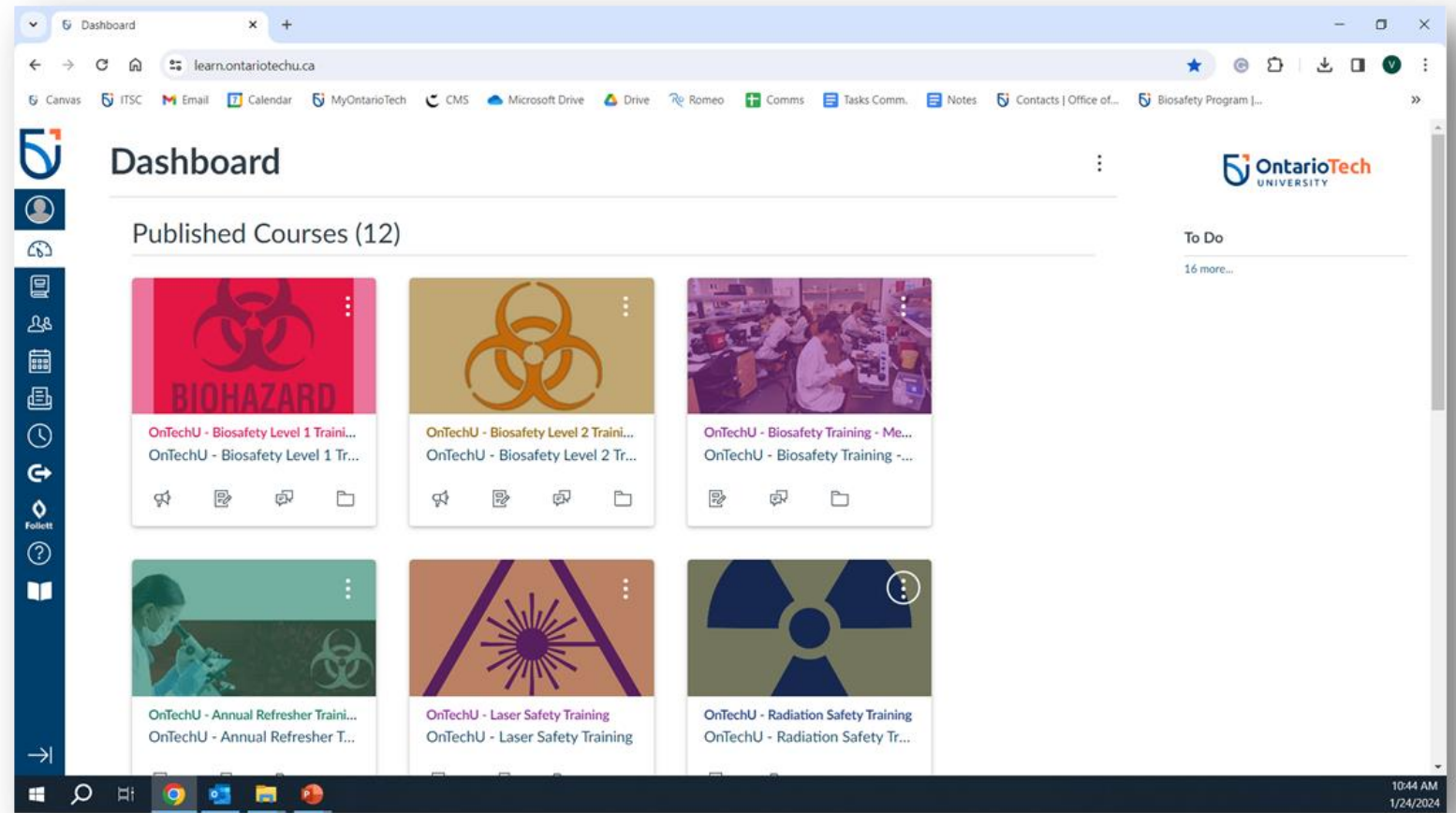
- [Sign In-Ontario Tech University](#)



2. Locate the course you are required to do:

Click the course you are enrolled in below and in Canvas:

- [OnTechU-Biosafety Level 1 Training](#)
- [OnTechU-Biosafety Level 2 Training](#)
- [OnTechU-Biosafety Training – Medical Science Laboratory](#)



3.1. OnTechU-Biosafety Level 1 Training: Read the Instructions

The screenshot shows the OnTechU - Biosafety Level 1 Training Syllabus page. The left sidebar contains navigation links: Home, Announcements, Assignments, Discussions, Grades, People, Files, Syllabus (highlighted), Quizzes, Modules, BigBlueButton, Collaborations, Google Drive, My Media, and Media Gallery. The main content area is titled 'OnTechU - Biosafety Level 1 Training' and includes a welcome message, a list of steps to complete the training, and contact information for the Ontario Tech Biosafety Team. The right sidebar contains links to View Course Stream, View Course Calendar, and View Course Notifications, as well as a 'To Do' section showing 'Nothing for now'.

OnTechU - Biosafety Level 1 Training > Syllabus

OnTechU - Biosafety Level 1 Training

Welcome to Ontario Tech's Biosafety Training. This training consists of training modules from the Public Health Agency of Canada's Principles of Laboratory Biosafety and specific Ontario Tech Biosafety Program information.

The steps are required to successfully complete this training:

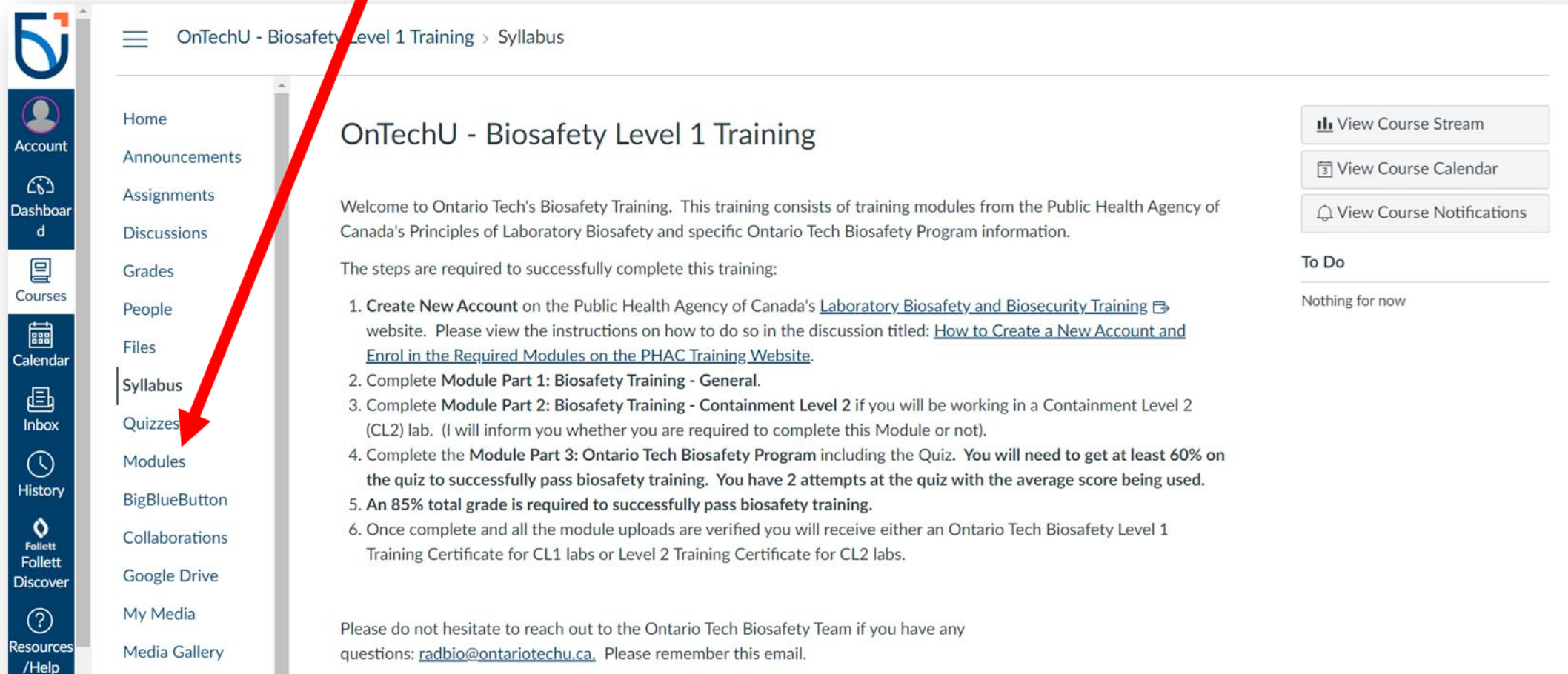
1. **Create New Account** on the Public Health Agency of Canada's [Laboratory Biosafety and Biosecurity Training](#) website. Please view the instructions on how to do so in the discussion titled: [How to Create a New Account and Enrol in the Required Modules on the PHAC Training Website](#).
2. Complete **Module Part 1: Biosafety Training - General**.
3. Complete **Module Part 2: Biosafety Training - Containment Level 2** if you will be working in a Containment Level 2 (CL2) lab. (I will inform you whether you are required to complete this Module or not).
4. Complete the **Module Part 3: Ontario Tech Biosafety Program** including the Quiz. **You will need to get at least 60% on the quiz to successfully pass biosafety training. You have 2 attempts at the quiz with the average score being used.**
5. **An 85% total grade is required to successfully pass biosafety training.**
6. Once complete and all the module uploads are verified you will receive either an Ontario Tech Biosafety Level 1 Training Certificate for CL1 labs or Level 2 Training Certificate for CL2 labs.

Please do not hesitate to reach out to the Ontario Tech Biosafety Team if you have any questions: radbio@ontariotechu.ca. Please remember this email.

View Course Stream
View Course Calendar
View Course Notifications

To Do
Nothing for now

3.2. Click on “Modules” on Canvas



The screenshot shows the Canvas LMS interface for the course 'OnTechU - Biosafety Level 1 Training'. The left sidebar contains a navigation menu with the following items: Home, Announcements, Assignments, Discussions, Grades, People, Files, **Syllabus**, Quizzes, Modules, BigBlueButton, Collaborations, Google Drive, My Media, and Media Gallery. A red arrow points to the 'Modules' link. The main content area displays the course title 'OnTechU - Biosafety Level 1 Training' and a welcome message: 'Welcome to Ontario Tech's Biosafety Training. This training consists of training modules from the Public Health Agency of Canada's Principles of Laboratory Biosafety and specific Ontario Tech Biosafety Program information.' Below this, it states 'The steps are required to successfully complete this training:' followed by a numbered list of six steps. The right sidebar contains three buttons: 'View Course Stream', 'View Course Calendar', and 'View Course Notifications', and a 'To Do' section with the text 'Nothing for now'.

OnTechU - Biosafety Level 1 Training > Syllabus

OnTechU - Biosafety Level 1 Training

Welcome to Ontario Tech's Biosafety Training. This training consists of training modules from the Public Health Agency of Canada's Principles of Laboratory Biosafety and specific Ontario Tech Biosafety Program information.

The steps are required to successfully complete this training:

1. **Create New Account** on the Public Health Agency of Canada's [Laboratory Biosafety and Biosecurity Training](#) website. Please view the instructions on how to do so in the discussion titled: [How to Create a New Account and Enrol in the Required Modules on the PHAC Training Website](#).
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View Course Stream
View Course Calendar
View Course Notifications

To Do
Nothing for now

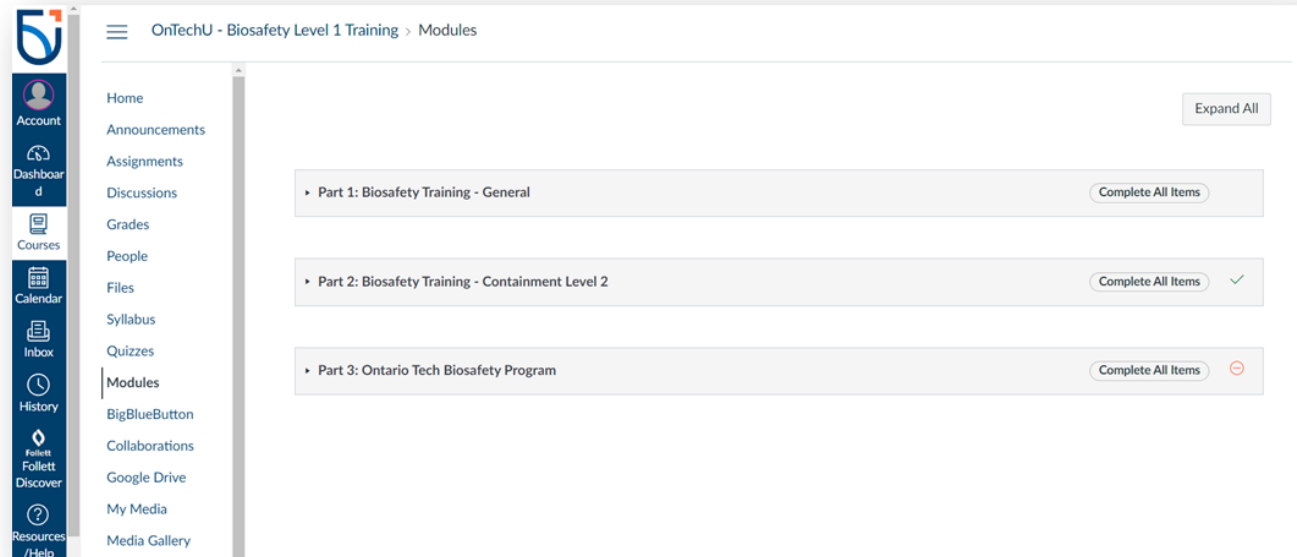
3.3. List of PHAC Modules and Canvas Quizzes

Part 1: Biosafety Training-General

- Canvas-Quiz (Biosafety Training Overview)
- PHAC-Introduction to Biosafety
- Canvas-Quiz (Introduction to Biosafety)
- PHAC-Microbiology Overview
- PHAC-Laboratory Acquired Infections
- PHAC-Personal Protective Equipment
- PHAC-General Safety for Containment Labs
- PHAC-Containment Level 1: Physical Design and Operational Practices
- PHAC-Decontamination in the laboratory
- PHAC-Chemical Disinfectants
- PHAC-Autoclaves

Part 3: Ontario Tech Biosafety Program

Canvas-Go over the pages
Quiz-Ontario Tech Biosafety Program



3.4. Access the courses on PHAC from the list in 3.3

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Canada

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ATTENTION

PLEASE ENSURE YOU USE EITHER

Google Chrome or Microsoft Edge when completing courses.

Course categories

You can modify your areas of interest categories on your [profile account settings](#) page.

▼ Collapse all

- ▼ [Laboratory Biosafety and Biosecurity](#)
 - ▶ [Biological Agents](#) (2)
 - ▶ [Biosafety](#) (8)
 - ▶ [Biosecurity](#) (4)
 - ▶ [Risk Assessments](#) (3)
 - ▶ [Containment / Containment Levels](#) (6)
 - ▶ [Decontamination / Waste Management](#) (6)

Click here, it will take you to the next page to search for your courses

3.5. Search the courses on PHAC from the list in 3.3

Home » Laboratory Biosafety and Biosecurity


Laboratory Biosafety and Biosecurity

Account settingsSign out

Course categories:

Laboratory Biosafety and Biosecurity

Go



This portal provides biosafety and biosecurity resources offered by the Centre for Biosecurity (Public Health Agency of Canada), and the Office of Biohazard Containment and Safety (Canadian Food Inspection Agency). These resources will help you minimize biosafety risks and promote compliance with the Human Pathogen and Toxins Act and Regulations, and with the Health of Animals Act and Regulations. The courses have been designed for individuals working in various laboratory environments and/or having different professional roles and responsibilities, including: people interested in biosafety. Of note, although these resources may be used as part of a facility's biosafety and biosecurity training program for new and existing employees, every facility is responsible for determining best practices based on its local risk assessment and all applicable laws and regulations.

Search your courses here

Search courses: Go

[Expand all](#)

[Biological Agents](#)

[Biosafety](#)

[Biosecurity](#)

You can also expand all courses.

Reminder: just do the courses on the list in 3.3

3.6. Once you found your course, click on “Enrol me”

The screenshot shows the publichealth.gc.ca/training website. The header includes the Government of Canada logo and navigation links. The main content area displays the course title 'Containment Level 3 Operational Practices' and a description. Below the description, there is a section for 'Self enrolment (Student)' with a text input field and an 'Enrol me' button. A red arrow points to the 'Enrol me' button. The footer contains links for Terms and conditions, Transparency, About us, Contact us, News, and Stay connected.

publichealth.gc.ca/training

Canada

Home Site pages Courses My courses Dashboard Frequently asked questions

Home > Laboratory Biosafety and Biosecurity > Principles of Laboratory Biosafety > Containment Level 3 Operational Practices > Enrol me in this course

Enrolment options

Account settings (Francis Arnaldo) Sign out

Enrolment options

Containment Level 3 Operational Practices

The information presented in this course is specific to containment level 3 (CL3) zones. Before taking this course, users should first complete the course which covers General Safety Practices that apply to all containment laboratories as well as the course which covers Operational Practices for containment level 2 (CL2).

At the conclusion of this course, learners will be able to recognize the key physical requirements of a CL3 zone and identify operational practices required for a CL3 zone.

Course updated in September 2014.

▼ Self enrolment (Student)

No enrolment key required.

Enrol me

Version: 2019-04-16

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3.7. Complete the quizzes and upload certificates from PHAC

- Once this is completed, you will receive your **OnTechU-Biosafety Level 1 Training**
- Please do not hesitate to reach out to the Ontario Tech Biosafety Team if you have any questions: rdbio@ontariotechu.ca. Please remember this email.



4.1. OnTechU-Biosafety Level 2 Training: Read the Instructions

The screenshot shows the OnTechU - Biosafety Level 2 Training Syllabus page. The left sidebar contains navigation links: Home, Announcements, Assignments, Discussions, Grades, People, Files, Syllabus (selected), Quizzes, Modules, BigBlueButton, Collaborations, Google Drive, My Media, and Media Gallery. The main content area is titled 'OnTechU - Biosafety Level 2 Training' and includes a welcome message, a list of steps to complete the training, and contact information for the Ontario Tech Biosafety Team. The right sidebar contains links to View Course Stream, View Course Calendar, and View Course Notifications, as well as a 'To Do' section showing 'Nothing for now'.

OnTechU - Biosafety Level 2 Training > Syllabus

OnTechU - Biosafety Level 2 Training

Welcome to Ontario Tech's Biosafety Training. This training consists of training modules from the Public Health Agency of Canada's Principles of Laboratory Biosafety and specific Ontario Tech Biosafety Program information.

The steps are required to successfully complete this training:

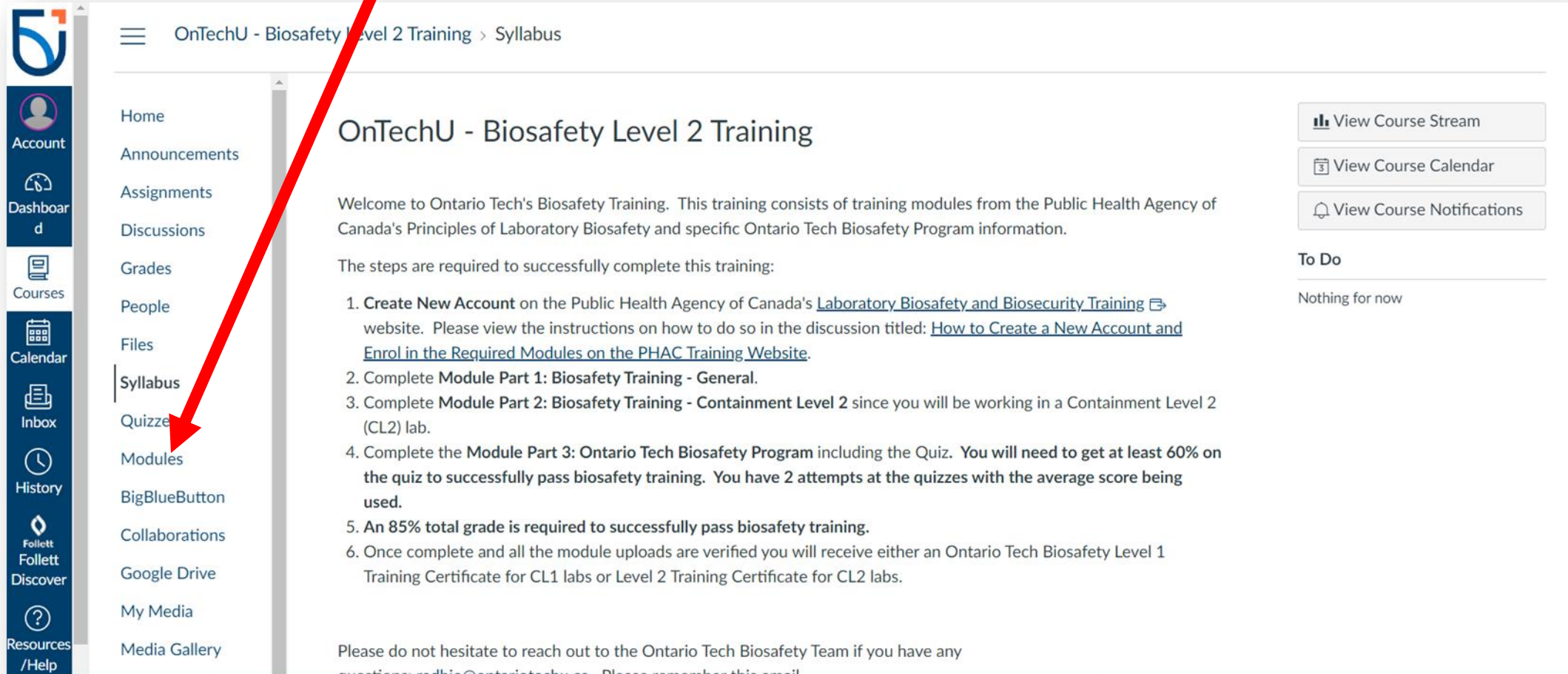
1. **Create New Account** on the Public Health Agency of Canada's [Laboratory Biosafety and Biosecurity Training](#) website. Please view the instructions on how to do so in the discussion titled: [How to Create a New Account and Enrol in the Required Modules on the PHAC Training Website](#).
2. Complete **Module Part 1: Biosafety Training - General**.
3. Complete **Module Part 2: Biosafety Training - Containment Level 2** since you will be working in a Containment Level 2 (CL2) lab.
4. Complete the **Module Part 3: Ontario Tech Biosafety Program** including the Quiz. **You will need to get at least 60% on the quiz to successfully pass biosafety training. You have 2 attempts at the quizzes with the average score being used.**
5. **An 85% total grade is required to successfully pass biosafety training.**
6. Once complete and all the module uploads are verified you will receive either an Ontario Tech Biosafety Level 1 Training Certificate for CL1 labs or Level 2 Training Certificate for CL2 labs.

Please do not hesitate to reach out to the Ontario Tech Biosafety Team if you have any questions: radhik@ontariotechu.ca. Please remember this email

View Course Stream
View Course Calendar
View Course Notifications

To Do
Nothing for now

4.2. Click on “Modules” on Canvas



The screenshot displays the Canvas LMS interface for a course titled "OnTechU - Biosafety Level 2 Training". The left sidebar contains a navigation menu with the following items: Home, Announcements, Assignments, Discussions, Grades, People, Files, Syllabus, Quizzes, Modules, BigBlueButton, Collaborations, Google Drive, My Media, and Media Gallery. A red arrow points to the "Modules" link in this sidebar. The main content area shows the course title and a welcome message: "Welcome to Ontario Tech's Biosafety Training. This training consists of training modules from the Public Health Agency of Canada's Principles of Laboratory Biosafety and specific Ontario Tech Biosafety Program information." Below this, it states "The steps are required to successfully complete this training:" followed by a numbered list of six steps. The right sidebar includes buttons for "View Course Stream", "View Course Calendar", and "View Course Notifications", as well as a "To Do" section showing "Nothing for now".

OnTechU - Biosafety Level 2 Training > Syllabus

Home
Announcements
Assignments
Discussions
Grades
People
Files
Syllabus
Quizzes
Modules
BigBlueButton
Collaborations
Google Drive
My Media
Media Gallery

OnTechU - Biosafety Level 2 Training

Welcome to Ontario Tech's Biosafety Training. This training consists of training modules from the Public Health Agency of Canada's Principles of Laboratory Biosafety and specific Ontario Tech Biosafety Program information.

The steps are required to successfully complete this training:

1. **Create New Account** on the Public Health Agency of Canada's [Laboratory Biosafety and Biosecurity Training](#) website. Please view the instructions on how to do so in the discussion titled: [How to Create a New Account and Enrol in the Required Modules on the PHAC Training Website](#).
2. Complete **Module Part 1: Biosafety Training - General**.
3. Complete **Module Part 2: Biosafety Training - Containment Level 2** since you will be working in a Containment Level 2 (CL2) lab.
4. Complete the **Module Part 3: Ontario Tech Biosafety Program** including the Quiz. **You will need to get at least 60% on the quiz to successfully pass biosafety training. You have 2 attempts at the quizzes with the average score being used.**
5. **An 85% total grade is required to successfully pass biosafety training.**
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Please do not hesitate to reach out to the Ontario Tech Biosafety Team if you have any questions: radh@ontariotechu.ca. Please remember this email

[View Course Stream](#)
[View Course Calendar](#)
[View Course Notifications](#)

To Do
Nothing for now

4.3. List of PHAC Modules and Canvas Quizzes

Part 1: Biosafety Training-General

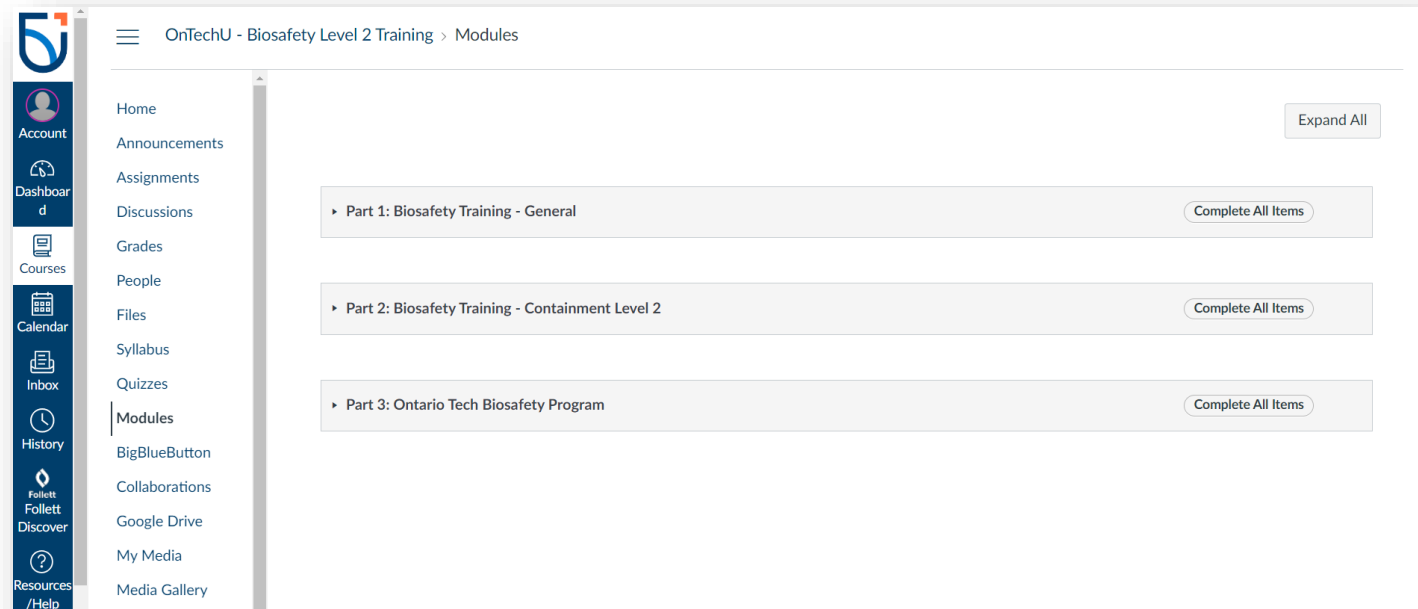
- Canvas-Quiz (Biosafety Training Overview)**
- PHAC-Introduction to Biosafety
- Canvas-Quiz (Introduction to Biosafety)**
- PHAC-Microbiology Overview
- PHAC-Laboratory Acquired Infections
- PHAC-Personal Protective Equipment
- PHAC-General Safety for Containment Labs
- PHAC-Containment Level 1: Physical Design and Operational Practices
- PHAC-Decontamination in the laboratory
- PHAC-Chemical Disinfectants
- PHAC-Autoclaves

Part 2: Biosafety Training-Containment Level 2*

- PHAC- Containment Level 2 Laboratories
- PHAC- Biological Safety Cabinets

Part 3: Ontario Tech Biosafety Program

- Canvas-Go over the pages
- Quiz-Ontario Tech Biosafety Program**



4.4. Access the courses on PHAC from the list in 4.3

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ATTENTION

PLEASE ENSURE YOU USE EITHER

Google Chrome **or** Microsoft Edge when completing courses.

Course categories

You can modify your areas of interest categories on your [profile account settings](#) page.

▼ [Laboratory Biosafety and Biosecurity](#)

- ▶ [Biological Agents](#) (2)
- ▶ [Biosafety](#) (8)
- ▶ [Biosecurity](#) (4)
- ▶ [Risk Assessments](#) (3)
- ▶ [Containment / Containment Levels](#) (6)
- ▶ [Decontamination / Waste Management](#) (6)

▼ Collapse all

Click here, it will take you to the next page to search for your courses

4.5. Search the courses on PHAC from the list in 4.3

Home » Laboratory Biosafety and Biosecurity


Laboratory Biosafety and Biosecurity

Account settings Sign out

Course categories:

Laboratory Biosafety and Biosecurity

Go



This portal provides biosafety and biosecurity resources offered by the Centre for Biosecurity (Public Health Agency of Canada), and the Office of Biohazard Containment and Safety (Canadian Food Inspection Agency). These resources will help you minimize biosafety risks and promote compliance with the Human Pathogen and Toxins Act and Regulations, and with the Health of Animals Act and Regulations. The courses have been designed for individuals working in various laboratory environments and/or having different professional roles and responsibilities, including: people interested in biosafety. Of note, although these resources may be used as part of a facility's biosafety and biosecurity training program for new and existing employees, every facility is responsible for determining best practices based on its local risk assessment and all applicable laws and regulations.

Search your courses here → Search courses: Go

Expand all

- ▶ [Biological Agents](#)
- ▶ [Biosafety](#)
- ▶ [Biosecurity](#)

You can also expand all courses.

Reminder: just do the courses on the list in 4.3

4.6. Once you found your course, click on “Enrol me”

The screenshot shows the publichealth.gc.ca/training website. The header includes the Government of Canada logo and navigation links. The main content area displays the course title 'Containment Level 3 Operational Practices' and a description. Below the description, there is a section for 'Self enrolment (Student)' with a text input field and an 'Enrol me' button. A red arrow points to the 'Enrol me' button. The footer contains links for Terms and conditions, Transparency, About us, Contact us, News, and Stay connected.

publichealth.gc.ca/training

Canada

Home Site pages Courses My courses Dashboard Frequently asked questions

Home > Laboratory Biosafety and Biosecurity > Principles of Laboratory Biosafety > Containment Level 3 Operational Practices > Enrol me in this course

Enrolment options

Account settings (Francis Arnaldo) Sign out

Enrolment options

Containment Level 3 Operational Practices

The information presented in this course is specific to containment level 3 (CL3) zones. Before taking this course, users should first complete the course which covers General Safety Practices that apply to all containment laboratories as well as the course which covers Operational Practices for containment level 2 (CL2).

At the conclusion of this course, learners will be able to recognize the key physical requirements of a CL3 zone and identify operational practices required for a CL3 zone.

Course updated in September 2014.

▼ Self enrolment (Student)

No enrolment key required.

Enrol me

Version: 2019-04-16

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4.7. Complete the quizzes and upload certificates from PHAC

- Once this is completed, you will receive your OnTechU-Biosafety Level 2 Training
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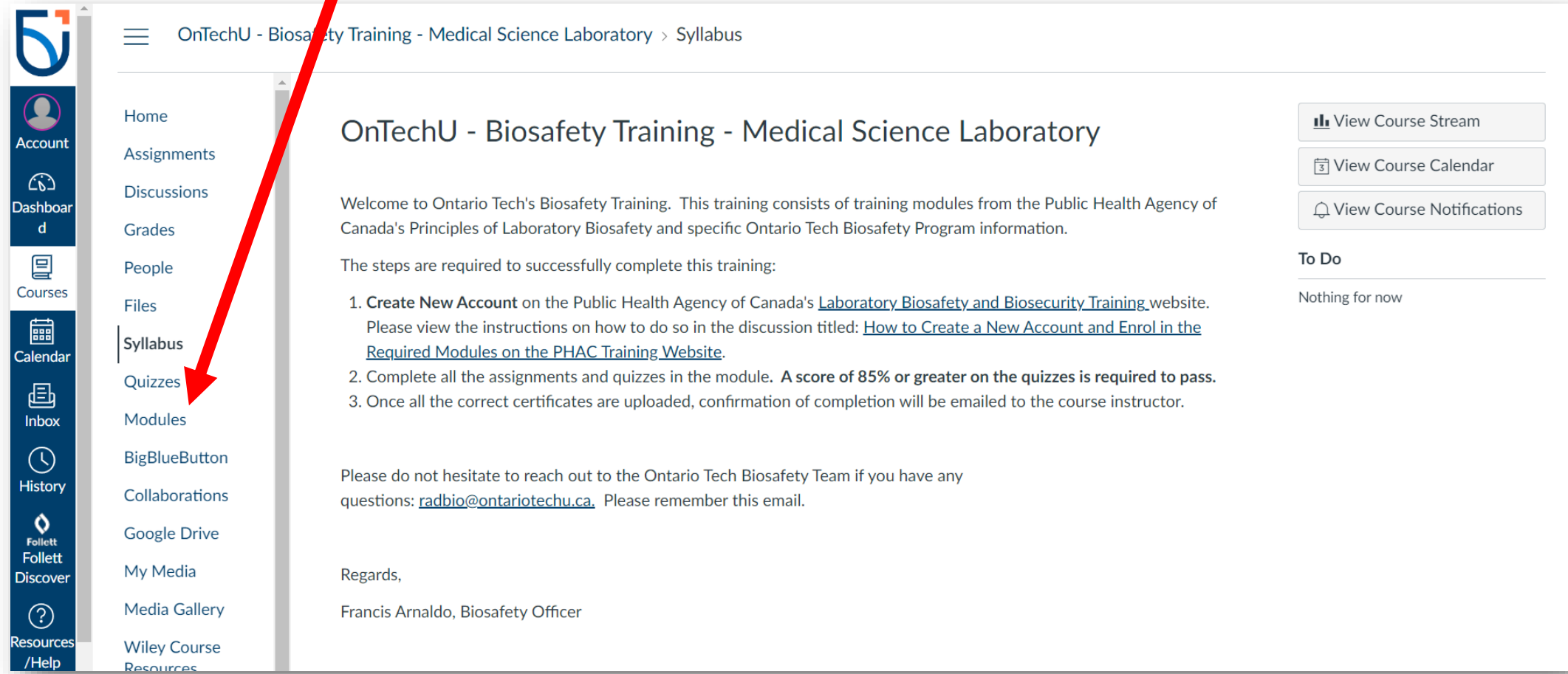
5.1. OnTechU- Biosafety Training- Medical Science Laboratory: Read the Instructions

The screenshot shows the OnTechU - Biosafety Training - Medical Science Laboratory Syllabus page. The page has a dark blue sidebar on the left with icons for Account, Dashboard, Courses, Calendar, Inbox, History, Follett Follett Discover, and Resources/Help. The main content area is white and contains the following elements:

- Header:** OnTechU - Biosafety Training - Medical Science Laboratory > Syllabus
- Left Menu:** Home, Assignments, Discussions, Grades, People, Files, **Syllabus**, Quizzes, Modules, BigBlueButton, Collaborations, Google Drive, My Media, Media Gallery, Wiley Course Resources.
- Main Content:**
 - ## OnTechU - Biosafety Training - Medical Science Laboratory
 - Welcome to Ontario Tech's Biosafety Training. This training consists of training modules from the Public Health Agency of Canada's Principles of Laboratory Biosafety and specific Ontario Tech Biosafety Program information.
 - The steps are required to successfully complete this training:

 - 1. Create New Account** on the Public Health Agency of Canada's [Laboratory Biosafety and Biosecurity Training](#) website. Please view the instructions on how to do so in the discussion titled: [How to Create a New Account and Enrol in the Required Modules on the PHAC Training Website](#).
 - 2. Complete all the assignments and quizzes in the module. A score of 85% or greater on the quizzes is required to pass.**
 - 3. Once all the correct certificates are uploaded, confirmation of completion will be emailed to the course instructor.**
 - Please do not hesitate to reach out to the Ontario Tech Biosafety Team if you have any questions: radbio@ontariotechu.ca. Please remember this email.
 - Regards,
Francis Arnaldo, Biosafety Officer
- Right Sidebar:**
 - [View Course Stream](#)
 - [View Course Calendar](#)
 - [View Course Notifications](#)
 - To Do**
 - Nothing for now

5.2. Click on “Modules” on Canvas



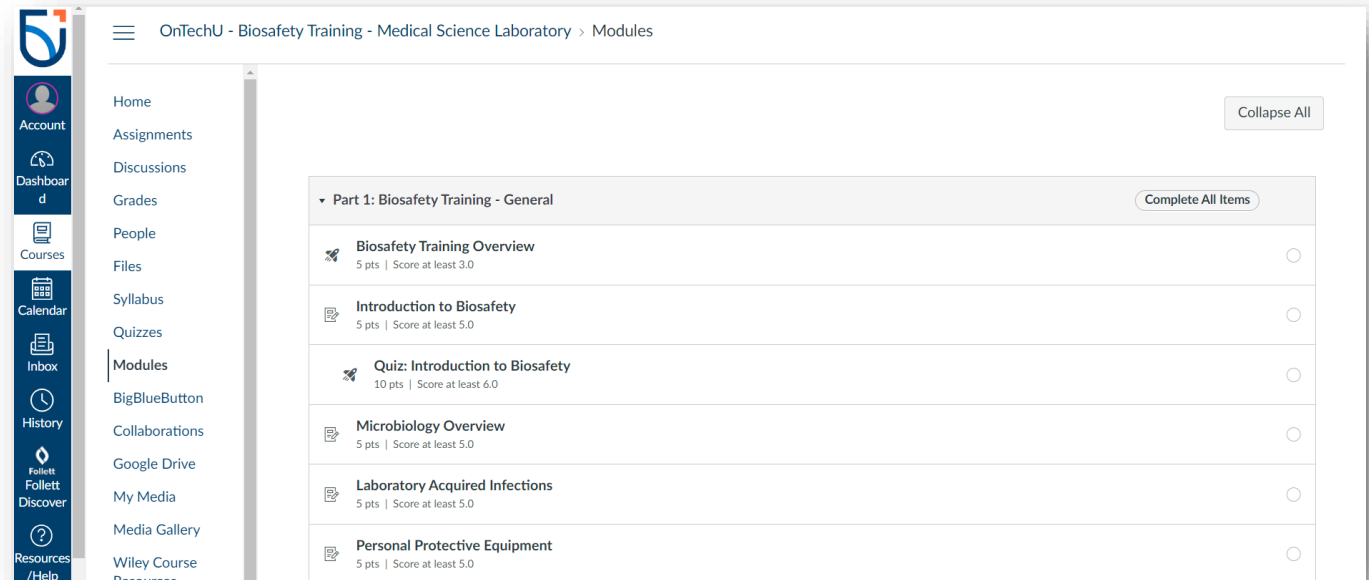
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5.3. List of PHAC Modules and Canvas Quizzes

Part 1: Biosafety Training-General

- Canvas-Quiz (Biosafety Training Overview)**
- PHAC-Introduction to Biosafety
- Canvas-Quiz (Introduction to Biosafety)**
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- PHAC-Personal Protective Equipment
- PHAC-General Safety for Containment Labs
- PHAC-Containment Level 1: Physical Design and Operational Practices
- PHAC-Containment Level 2: Operational Practices
- PHAC-Biological Safety Cabinets

- PHAC-Decontamination in the laboratory
- PHAC-Chemical Disinfectants
- PHAC-Autoclaves



5.4. Access the courses on PHAC from the list in 5.3

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ATTENTION

PLEASE ENSURE YOU USE EITHER

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Course categories

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▼ Collapse all

- ▼ [Laboratory Biosafety and Biosecurity](#)
 - ▶ [Biological Agents](#) (2)
 - ▶ [Biosafety](#) (8)
 - ▶ [Biosecurity](#) (4)
 - ▶ [Risk Assessments](#) (3)
 - ▶ [Containment / Containment Levels](#) (6)
 - ▶ [Decontamination / Waste Management](#) (6)

Click here, it will take you to the next page to search for your courses

5.5. Search the courses on PHAC from the list in 3.3

Home » Laboratory Biosafety and Biosecurity


Laboratory Biosafety and Biosecurity

Account settingsSign out

Course categories:

Laboratory Biosafety and Biosecurity

Go



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Search your courses here

Search courses: Go

Expand all

Biological Agents

Biosafety

Biosecurity

You can also expand all courses.

Reminder: just do the courses on the list in 5.3

5.6. Once you found your course, click on “Enrol me”

The screenshot shows the publichealth.gc.ca/training website. The header includes the Government of Canada logo and navigation links. The main content area displays the course title 'Containment Level 3 Operational Practices' and a description. Below the description, there is a section for 'Self enrolment (Student)' with a text input field and an 'Enrol me' button. A red arrow points to the 'Enrol me' button. The footer contains links for Terms and conditions, Transparency, About us, Contact us, News, and Stay connected.

publichealth.gc.ca/training

Canada

Home Site pages Courses My courses Dashboard Frequently asked questions

Home > Laboratory Biosafety and Biosecurity > Principles of Laboratory Biosafety > Containment Level 3 Operational Practices > Enrol me in this course

Enrolment options

Account settings (Francis Arnaldo) Sign out

Enrolment options

Containment Level 3 Operational Practices

The information presented in this course is specific to containment level 3 (CL3) zones. Before taking this course, users should first complete the course which covers General Safety Practices that apply to all containment laboratories as well as the course which covers Operational Practices for containment level 2 (CL2).

At the conclusion of this course, learners will be able to recognize the key physical requirements of a CL3 zone and identify operational practices required for a CL3 zone.

Course updated in September 2014.

▼ Self enrolment (Student)

No enrolment key required.

Enrol me

Version: 2019-04-16

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5.7. Complete the quizzes and upload certificates

- Once this is completed, you will receive your OnTechU-Biosafety Training –Medical Science Laboratory
- Please do not hesitate to reach out to the Ontario Tech Biosafety Team if you have any questions: rdbio@ontariotechu.ca. Please remember this email.

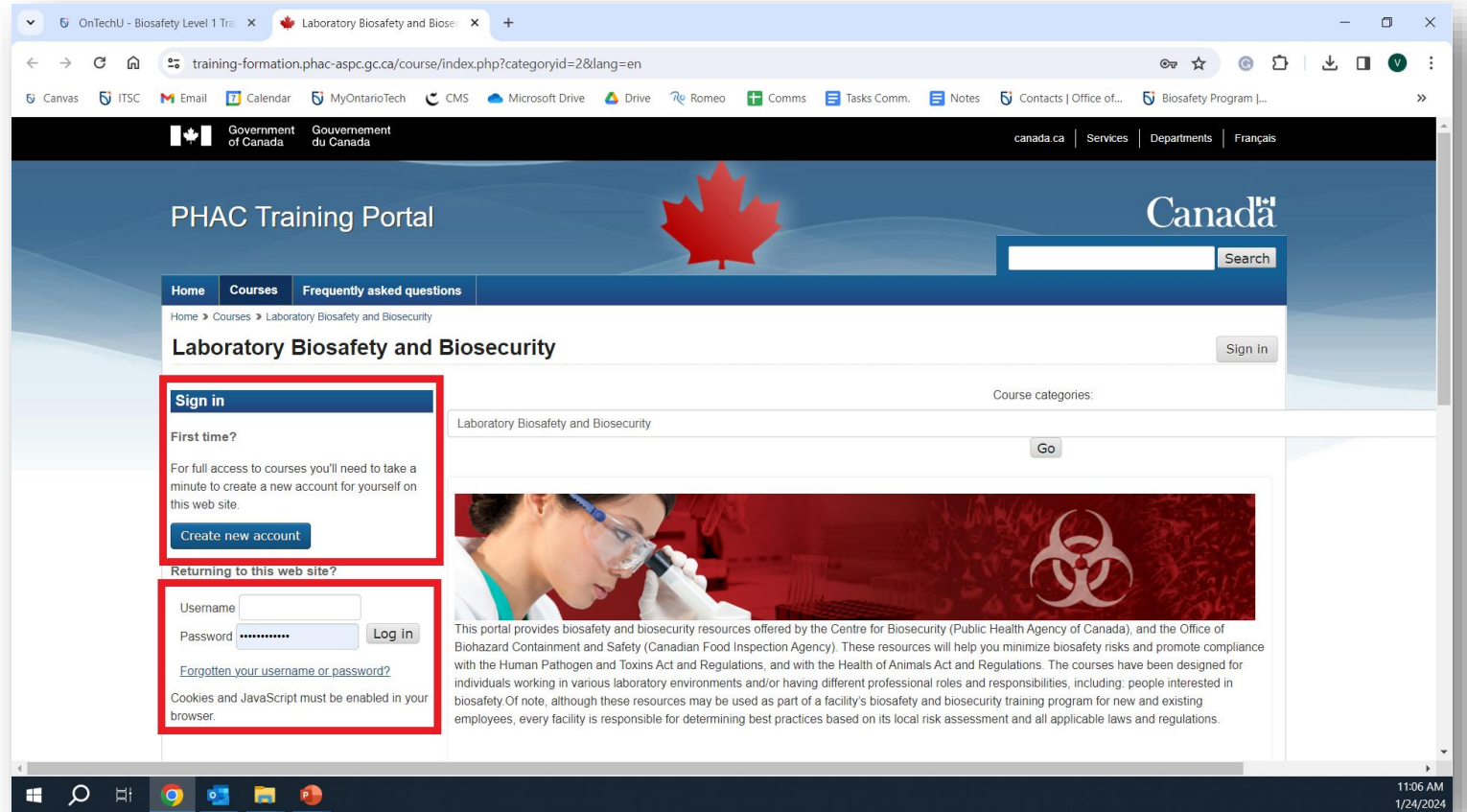


FAQs-How to create a PHAC account?


1. Go to [Laboratory Biosafety and Biosecurity Training](#)
2. Click on “Create account”
 - If you already have an account, Click on “Log in”
3. Complete the registration form

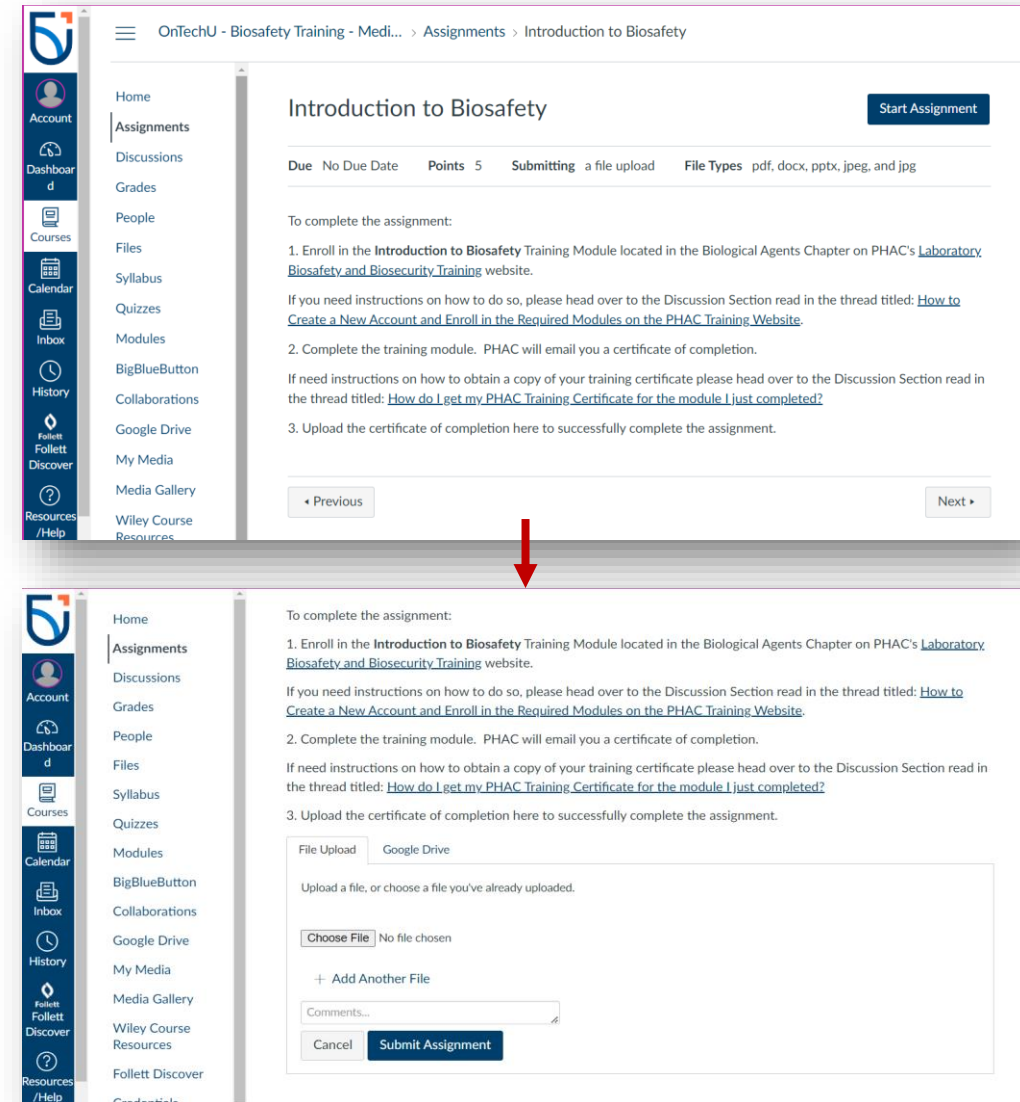
Notes:

- You can use any email account; it does not have to be a school or organization email. Just make sure you have access to that email.
- Please use your entire name, this name will be placed on the certificate from PHAC.



FAQs-How to upload PHAC certificates to Canvas?

1. Download your certificate from PHAC for the corresponding assignment from Canvas.
2. Go to Canvas “Modules”, then click on “Assignment”. Look for this Logo → 
3. Click on “Start Assignment”
4. Click on “Choose a File”. Upload the corresponding certificate.
5. Click on “Submit Assignment”.
6. Repeat steps 1 to 5 for all the assignments in your course.



The image displays two screenshots of the Canvas LMS interface. The top screenshot shows the 'Introduction to Biosafety' assignment page. The left sidebar contains navigation links: Home, Assignments, Discussions, Grades, People, Files, Syllabus, Quizzes, Modules, BigBlueButton, Collaborations, Google Drive, My Media, Media Gallery, Wiley Course Resources, and Follett Discover. The main content area shows the assignment details, including a 'Start Assignment' button and a list of instructions. A red arrow points from the 'Start Assignment' button to the bottom screenshot. The bottom screenshot shows the 'File Upload' section of the assignment page. It includes a 'Choose File' button, a 'No file chosen' status, an 'Add Another File' button, a 'Comments...' text box, and 'Cancel' and 'Submit Assignment' buttons.