NEUROTECH

Ethical Considerations in Neurotech

In this hybrid interdisciplinary course, learners apply a bioethics lens to evaluate applications of neurotechnologies across the medical and consumer sectors, and how they may be co-opted for use by organizations such as the military, workplaces, and schools. Learners attend bi-weekly tutorials and complete 4 asynchronous online modules:

Medical Neurotech

Explore fundamentals of

medical neurotechnology

then analyze case studies

visual neuroprosthetics).

using TALES (portable MRI,



Module 01

Intro to Neurotech and **Neuroethics**

An introductory module to the basics of neuroscience, neurotechnology, and the **TALES** neurotech impact assessment framework

Timeline (乀)

Course must be completed in 12 weeks

Completing course takes approximately

50 hours

Learning Outcomes

- 1. Differentiate between the different neurotechnologies and their use cases.
- 2. Using the TALES impact assessment framework, evaluate the legal, ethical, and social considerations related to medical devices, consumer devices, and the mandated use of neurotech by organizations.
- 3. Critically evaluate anticipatory/speculative considerations about neurotech applications.



Contact Information

Content and Accommodation Related Questions: neurotech.microcredentials@queensu.ca

Health Sci Ed Connect (HSEC) Technology Support: opdes.elearninghelp@queensu.ca

Tech Requirements

Module 02

Regular access to a computer and a stable internet connection

Compatible internet browser (Google Chrome is recommended)



Module 03

Consumer Neurotech

Explore fundamentals of consumer neurotechnology then analyze case studies using TALES (direct-toconsumer EEG and tDCS)

Recommended **Prerequisites**

Neurotech

Neuroscience and Neurotech Primer Microcredential. and/or Enrolled in or graduated from some post-secondary education

Organizational Use of

Explore contemporary and

neurotech usage mandated

TALES to analyze case-studies

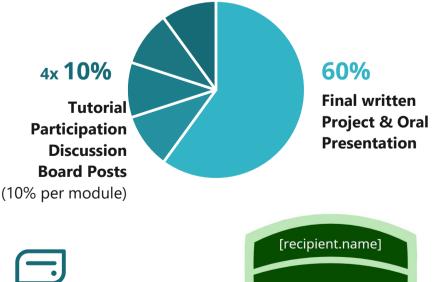
by organizations, then use

(workplace neuroimaging)

anticipatory examples of

Assessments

A pass in this course requires achievement of an overall grade of 70%.



Certified through Accredible.

Linked in Share your certification!



Ethical Considerations in Neurotech



Module 04

