**Curriculums for Continuing Education Courses in CMBESC42 Conference in Ottawa**

**Local: Room 106H**

**Credits:**

**OACETT-> 6hrs block = 1 credit for Continuing Education**

**PEO-> PEAK Program 1:1 that means 1hr= 1 credit**

**EIC-> Professional Development Hours (PDH) which means 1hr= 1 PDH hr credit**

1. **Course: CE1 - RSTI Training : Intro to Diagnostic Imaging & PACS**

**Audience: everyone**

**Instructor: Mike Petelin**

**Company: RSTI**

**Day: 21st May 2019**

**Time: 4hrs**

**Cost: $350**

**Curriculum:**

Introduction to radiography

o X-rays: an overview

\_ What they are

\_ How they are produced

\_ What they do

o The radiographic system, an

overview

o The radiograph, an overview

o Factors that measure radiographic

quality

\_ Density

\_ Contrast

\_ Sharpness

o Factors that affect radiographic

quality

o Operation of the overtable system

o Operation of the undertable system

Radiology Modality Basics

o CR (Computerized Radiography)

o DR (Digital Radiography)

o CT (Computed Tomography)

o XA (Angiography)

o RF (Radiography/Fluoroscopy)

o US (Ultrasound)

o MR (Magnetic Resonance)

o NM (Nuclear Medicine)

o MG (Mammography)

o X-rays: an overview

· Modality Operational Procedures

· QA & QC

· The production of X-rays

o How X-rays are produced

\_ Where X-rays are produced

\_ How X-rays are controlled

o The X-ray tube

\_ X-ray tube construction

\_ Functions of basic elements

\_ Proper usage

1. **Course: CE2 - Entrepreneurship Workshop**

**Instructor:** Frank Fiorenza (founder of “Flusso” and Pierre Robichaud, Founding Partner of Andrews Robichaud Intellectual Law)

**Audience: everyone**

**Company : McArthur**

**Day: 22nd May 2019**

**Time: 1.5hrs**

**Cost: $20**

**Curriculum:**

1. **Introduction to Intellectual Property (30 min)**
2. **Journey with Flusso (1hr)**
3. **Course: CE3 - Biomed Workshop Shop3D**

**Instructor: Jacky Wan**

**Audience: Everyone**

**Company : Shop3D.ca**

**Day: 22nd May 2019**

**Time: 1.5hrs**

**Cost: $20**

**Curriculum:**

 **Introductory course for 3D printing**

**• Basics and descriptions of 3D Printing**

**• Popular Desktop Printer Options today**

**• How to prepare a Print**

**• Considerations between Quality and Time**

**• 3D printing specific considerations on designs**

1. **Course: CE4- Electrical Safety->Defibrillator/AED Course**

**Instructor: Anas Sherif**

**Audience: Technologists**

**Company: DA Trend**

**Day: 23rd May 2019**

**Time: 1.5hrs**

**Cost: $20**

**Curriculum:**

**Defibrillator/AED Course Agenda:**

**Defib/AED Terminology, Defib/AED Testing Standards (AAMI/IEC), Defibrillation, Pacing, & AED Testing Auto Sequences with Phase 3 , Completing a PM utilizing the Phase 3**

**Equipment will be provided for small groups to use during “hands-on” portions of the training class**

1. **Course: CE5- ESU Training**

**Instructor: Anas Sherif**

**Audience: Technologists**

**Company: DA Trend**

**Day: 23rd May 2019**

**Time: 1.5hrs**

**Cost: $20**

**Curriculum:**

 **ESU Terminology, ESU Testing Standards (AAMI/IEC) Completing a PM utilizing safety analyzer**

1. **Course: CE6- Olympus (Endoscope Inspection Training)**

**Instructor: Nathan Laishram**

**Audience: Technologists**

**Company: Olympus**

**Day: 23rd May 2019**

**Time: 1.5hrs**

**Cost: $20**

**Curriculum:**

**1) Flexible/ Rigid Scope anatomy**

**2) Care and Handling**

**3) Damage recognition**

**4) Inspection and Leak testing**

**5) Common Repairs**

**6) Q/A**

1. **Course: CE7-Water Systems Standards**

**Instructor: Andrew Connell & Associates**

**Audience: Everybody**

**Company: High Purity Water Systems**

**Day: 23rd May 2019**

**Time: 1.5hrs**

**Cost: $20**

**Curriculum:**

**1.5 hour presentation on the various standards Lab, Dialysis and MDRD. Dialysis testing, false positives, hands on, containers etc.**

1. **Course: CE8- Ventilators (Philips V60 and V680) Workshop**

**Audience: Technologies prerequisite with basic ventilator training**

**Instructor: Presented by a fantastic duo, Yannick Martin & Melany Grondin RRT Inh.**

**Yannick is a Field Service Engineer with extensive knowledge to share from his Biomedical experience, and Melany is a Clinical Specialist /Respiratory Therapist who will share her clinical expertise. They have offered a similar workshop in the past for our Philips Service Team to prepare them for Field Service work on the Philips V680 & V60 Ventilators. They received excellent feedback on the content of their presentation from our team.**

**Company: Philips**

**Day: 24th May 2019**

**Time: 3 hrs**

**Cost: $20**

**Curriculum:**

***Philips V60 and V680 Workshop***

**Technical & Clinical Presentation Objectives**

* **Overview of common respiratory terms, abbreviation for monitored values, modes of ventilation, settings**
* **Basic Single Limb Ventilation Theory**
* **AutoTrak Algorithm**
* **Non-Invasive Ventilation Review (Masks, patient circuits & filters)**
* **Review of NIV Modes, Settings, Alarms**
* **Basic Dual Limb Ventilation Theory**
* **ESYS & O2 Cell Calibration, Troubleshooting, Preventative Maintenance and Repairs**
* **Device Cleaning & Sterilization**
* **Invasive Ventilation Modes, Settings, Alarms**
* **V680 User preoperative EST/SST testing**
* **Diagnostics (service mode)**
* **Pneumatics for our systems**
* **Electronics and Components**
* **Troubleshooting and common issue (this will be in conjunction with Melany presentation)**
* **Demonstrate the use of the Quick lung, the Certifier Plus and equipment needed for servicing the V680**
* **Respi-Link software tool**
* **Performance Verification (PM)**
* **Spare parts**
* **Also answer biomed question and I am open to any change or topic suggestion.**

**We would need a conference room optimally large enough to configure tables /chairs in a U-shape to facilitate the demonstration of equipment during the presentation.  We will need a Projector and Screen.  Electrical connection and extension cord.**

1. **Course: CE9- Ultrasound probe repairs**

**Instructor: Taylor Bailie**

**Audience: Technologists**

**Company: Keir Surgical**

**Day: 24th May 2019**

**Time: 1.5hrs**

**Cost: $20**

**Curriculum:**

**• Probe testing**

**• Probe cleaning**

**• Full diagnostics**

**• Lens replacement**

**• Head replacement**

**• Cable sheath repair**

**• Case repair**

**• Connector repair**

**• 3D / 4D probe repair**

**• 3D / 4D oil filling**

**• Cable whitening**

**Range of US probe to validate with Keir Surgical for Medical Imaging.**

1. **Course: CE10-3D Printing Workshop**

**Instructor: TBD**

**Audience: Everybody**

**Company: Makerspace @ Ottawa University**

**Day: 24th May 2019**

**Time: 1.5hrs**

**Cost: $20**

**Curriculum:**

 **Basic 3D Printing Workshop-In this workshop, you will learn the basics on how to design and 3D print objects. You will learn how to use basic 3D design software [TinkerCAD] to create a personalized object then followed by a step by step tutorial on how to 3D print your object on the various printers in the Makerspace. Please bring your laptops to this workshop to follow along with the activity. Internet connection required.**

 **\*\*\* Add 3D scanner in workshop**

**If you have not already, please make an account on Makerepo.com before coming to the workshop, and bring your student card!**

1. **Course: CE11- Technical Writing Workshop**

**Instructor: Pascal Viscogliosi**

**Audience: Everybody**

**Company: LIOS**

**Day: 24th May 2019**

**Time: 1.5hrs**

**Cost: $20**

**Curriculum: TBD?**