



Professional Activity Requirements

All certified perfusionists are required to complete 24 continuing education units (CEU) in a two-year cycle. Continuing education units are categorized into three classes.

Class 1 activities - minimum of twelve (12) per two-year recertification cycle.

1 CEU = 50 minutes of educational content.

Activities:

- Attending a scientific session at any live perfusion related meeting or live on-line interactive meeting webcast that is approved by the CSCP.

Class II Activities – maximum of (10) per two-year recertification cycle.

1 CEU = 60 minutes of educational content.

Activities:

- Attendance at seminars or courses on specific perfusion related topics.
- Publication of a perfusion article in a professional journal (10 points)
- Presentation or talk at an international or national perfusion meeting (10 points)
- Completion of CSCP competency profile survey (5 points)

Class III Activities – Maximum of (8) per two-year recertification cycle

1 CEU = 60 minutes of educational content.

Proof of completion required

Activities:

- Delivery of an in-service or lecture related to the perfusion field.
- Attending in-services, lectures, or viewing archived on-line webinars on perfusion related topics.
- Participation as Clinical Coordinator for an accredited Perfusion program (8 CEU)
- Member of a CSCP committee (8 CEU)

Declaration of Clinical Activity

Recertification Requirements: A Canadian Certified Clinical Perfusionist is required to complete and declare a minimum of **80 clinical cases** over a two year period with no more than 20 of these cases being documented as level 2 activities and no more than 5 of these cases being documented as level 3 activities, and obtain **24 Continuing Education Units (CEUs)** in the same period.

Clinical Activity Definitions:

Primary Perfusionist: A Clinical Perfusionist - Certified (CPC) who is responsible for 60% of a clinical activity. There may be only one primary perfusionist per case.

- **Level 1 Activity:** A minimum of 55 cases, over a two-year period, must be Level 1 Activity. See Table A
- **Level 2 Activity:** A maximum of 20 cases, over a two-year period, may be Level 2 Activity. See Table B
- **Level 3 Activity (Qualifies as a 1/2 case):** A maximum of 10 half cases for a total of 5 full cases, over a two-year period, may be Level 3 Activity. See Table C

Definition of Guarantor: CSCP Certified member in good standing (otherwise, a direct supervisor or manager with the ability to verify caseload may serve as guarantor) is required as a corroborating signature for proof of 80 cases in two recertification cycle.

Table A: Level 1 Activities

LEVEL 1 CLINICAL PERFUSION ACTIVITIES	CLINICAL DEFINITION	CORE ELEMENTS
Cardiopulmonary Bypass, Primary	A Clinical Perfusionist - Certified (CPC) who is the primary operator of the heart-lung machine, used during cardiac surgery and other surgeries that require extracorporeal circulation, used to manage the patient's physiological status.	Blood pump, reservoir, heat exchanger, oxygenator, extracorporeal circuit used accordingly with hemodynamic/lab value monitoring.
Instructor Cardiopulmonary Bypass	A Clinical Perfusionist - Certified (CPC) who serves as a clinical instructor to a student enrolled in an accredited perfusion program during primary clinical perfusion activities that require	Blood pump, reservoir, heat exchanger, oxygenator, extracorporeal circuit used accordingly with hemodynamic/lab value monitoring. Level 1 clinical perfusion activities performed as clinical instructor in an accredited program are considered a level 1 perfusion

	extracorporeal circulation, used to manage the patient's physiological status.	activity and will receive full case credit. During clinical instruction in which the student is operating extracorporeal circulation equipment, there must be direct one-to-one supervision by the clinical instructor. Students may also receive credit toward certification eligibility for the same case.
Extra-Corporeal Life Support (ECLS)	A Clinical Perfusionist - Certified (CPC) who is the primary operator of an ECLS circuit that provides life support for respiratory and/or cardiac failure.	Extracorporeal circuit, oxygenator, heat exchanger used accordingly with hemodynamic/lab value monitoring. For each ECLS case, one case credit per 24 hrs will be awarded for initiating and bedside managing ECLS (4-hour minimum) or bedside managing (6 hour minimum). No simultaneous credit will be awarded for managing multiple ECLS patients in this time period.
Isolated Limb/ Organ Perfusion	A Clinical Perfusionist - Certified (CPC), who is the primary operator of an extracorporeal device used to deliver anti-cancer drugs directly to an arm, leg or organ that manages the patient's physiological status.	Reservoir, blood pump, heat exchanger, oxygenator, extracorporeal circuit used accordingly with hemodynamic, temperature, and lab value monitoring.
Veno-Venous or Left Heart Bypass	A Clinical Perfusionist - Certified (CPC) who is the primary operator of an extracorporeal device, used to perfuse specific vascular regions within the circulatory system.	Blood pump, extracorporeal circuit +/- oxygenator used accordingly with hemodynamic/lab value monitoring.
Ventricular Assist Device (VAD)	A Clinical Perfusionist - Certified (CPC) who is the primary operator of the Ventricular Assist Device (VAD) that provides cardiac support for the failing heart.	For each VAD case, one case credit per 24 hrs will be awarded for initiating and managing VAD or bedside managing (6 hour minimum). No simultaneous credit will be awarded for managing multiple VAD patients in this time period.
Intraperitoneal Hyperthermic Chemoperfusion or Intrapleural Hyperthermic Chemoperfusion	A Clinical Perfusionist - Certified (CPC) who is the primary operator of an intraperitoneal or intrapleural device.	A device with pump flow, circulation, temperature, monitoring and regulation of chemotherapeutic fluids with abdominal or thoracic cavity for periods exceeding 30 minutes. Syringe infusion devices will not be counted as Level 1 Clinical Activities.

Table B: Level 2 Activities

LEVEL 2 CLINICAL PERFUSION ACTIVITIES	CLINICAL DEFINITIONS	CORE ELEMENTS
Cardiopulmonary Bypass, Assistant	The CPB Assistant is the Clinical Perfusionist - Certified (CPC) whom the hospital/institution recognizes as the assistant to the primary perfusionist during the conduction of perfusion.	The CPB Assistant must be documented within the operating suite and actively assisting during the operative case. Multiple CPB Assistant credits will not be allowed during concurrent operative procedures.
Ex Vivo	A Clinical Perfusionist - Certified (CPC) who is the primary operator of an extracorporeal device, used	A device with Ex Vivo blood flow regulation & extracorporeal oxygenations used accordingly with hemodynamic/lab value monitoring. For

	to perfuse isolated and separated human organs from the body, for potential transplant opportunities.	each Ex Vivo case, one secondary case credit per 24 hrs will be awarded for initiating and/or managing. No simultaneous credit will be awarded for managing multiple organs in this time period.
Cardiopulmonary Bypass, Standby	A Clinical Perfusionist - Certified (CPC) who is the primary standby operator of the heart-lung machine, used during cardiac surgery and other surgeries that require extracorporeal circulation, used to manage the patient's physiological status.	Any procedure that may require immediate and onsite extracorporeal circulatory support. Standby procedures must be documented, requested by the attending physician, and verifiable in an audit.
High Fidelity Perfusion Simulation (HFPS)	A Clinical Perfusionist - Certified (CPC) who is the primary operator of the heart-lung machine or ECLS circuit, used to manage physical and physiological variables during simulated perfusion scenarios taking place at a CSCP Board of Directors approved simulation session.	HFPS is the use of simulation modalities or mechanisms to create a realistic patient model or perfusion situation. HFPS must be an interactive process facilitated by a CPC using standardized medical simulation devices that integrate realistic perfusion events experienced during CPB procedures in a realistic surgical setting using a conventional heart-lung machine or ECLS circuit. Each HFPS or series of HFPS must have an education/briefing, simulation and debriefing. The simulation/simulation series length must be no less than 50 minutes of active simulation activity. One case credit is awarded for each HFPS activity that meets or exceeds these guidelines. Each HFPS must include and retain a participant evaluation form.

Table C: Level 3 Activities

LEVEL 3 CLINICAL PERFUSION ACTIVITIES	CLINICAL DEFINITION	CORE ELEMENTS
Intra-Aortic Balloon Pump (IABP)	A Clinical Perfusionist - Certified (CPC) who is the primary operator of an Intra-Aortic Balloon Pump.	For each ½ case the IABP must be set up and monitored for no less than 3 hours . One half case will be awarded per 24 hr period. No simultaneous credit will be awarded for managing multiple IABP patients.
Auto Transfusion	A Clinical Perfusionist - Certified (CPC) who is the primary operator of a cell salvage device used to recover, wash and deliver red blood cells back to the patient.	Cell Salvage Device set up, initiating and processing (with processed blood being returned to patient). Procedure must be documented with appropriate volumes returned to patient. One half case will be awarded per 24 hour period. No simultaneous credit will be awarded for managing multiple cell salvage devices.
Acute Normovolemic Hemodilution (ANH)+/-Component Therapy	A Clinical Perfusionist - Certified (CPC) who is the primary operator of a blood collection device set up for the procedure of ANH +/- the subsequent procedure of	Set up, initiation of a blood sequestration device, +/- the use of a fractionating procedure, with return of the product to the patient. The procedure must be documented with appropriate volumes withdrawn and returned to

	fractionating the blood product for later transfusion back to the patient.	the patient. One half case will be awarded per 24-hour period. No simultaneous credit will be awarded for managing multiple sequestration and fractionating devices.
Pace Makers Insertion	A Clinical Perfusionist - Certified (CPC) who assists with the set-up of a pace maker device.	The CPC must be involved with the programming, interrogation and analysis of the pace maker device. One half case will be awarded per 24-hour period. No simultaneous credit will be awarded for managing multiple pace maker devices.