



CANADIAN SOCIETY OF RESPIRATORY THERAPISTS
SOCIÉTÉ CANADIENNE DES THÉRAPEUTES RESPIRATOIRES

2011 NCP CROSS-REFERENCE TEMPLATE

**If there are any competencies that respiratory therapists are not allowed to perform due to provincial legislation, please specify and indicate the mechanisms in place to provide exposure to these competencies e.g. through simulation.*

Abbreviations in the template:

N: Neonate, **P:** Pediatric, **A:** Adult

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		Required level	Attained level	If not attained at the required level, please provide explanation and comments	List courses or rotations where this competency is evaluated.
1. PROFESSIONALISM (Professional Conduct)					
1.1	Use professional and respectful language, behaviour, and attire	C			
1.2	Demonstrate support and caring towards patients, co-workers and others	C			
1.3	Adhere to scope of practice limitations	C			



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1.4	Adhere to professional medical, legal, and ethical guidelines/regulations	C			
1.5	Adhere to institutional/organizational policies and procedures	C			
1.6	Participate in continuing education	C			
1.7	Perform continuous self-evaluation	C			
1.8	Demonstrate stress management skills	C			

Note: Competency Areas 1 to 7 are not population specific

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		Required level	Attained level	If not attained at the required level, please provide explanation and comments	Indicate course/ lab/ rotation
2. COMMUNICATION					
2.1	Demonstrate effective oral, written, and non-verbal communication skills	C			
2.2	Use adjunctive equipment/techniques to facilitate communication	C			
2.3	Apply active listening	C			
2.4	Use recognized medical terminology	C			
2.5	Maintain documentation and records	C			
2.6	Participate in professional consultations in a multidisciplinary and/or interdisciplinary health care system	C			

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		Required level	Attained level	If not attained at the required level, please provide explanation and comments	Indicate course/ lab/ rotation
2.7	Provide shift change report	C			
2.8	Pursue resolution to interpersonal relationship problems	C			
2.9	Receive and transcribe verbal orders	C			

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3. ANALYSIS AND PROBLEM SOLVING					
3.1	Demonstrate critical judgment in professional practice	C			
3.2	Evaluate and address issues surrounding equipment application and/or operation	C			
3.3	Demonstrate problem-solving skills	C			
3.4	Demonstrate decision-making skills	C			
3.5	Demonstrate prioritization skills	C			

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4. HEALTH AND SAFETY					
4.1	Adhere to procedures and operations with respect to 'Workplace Hazardous Materials Information System' (WHMIS) and Occupational Health, Safety and Wellness (OHS&W)	C			
4.2	Adhere to quality control/assurance guidelines	C			
4.3	Participate in equipment preventative maintenance programs	C			
4.4	Clean and disinfect equipment	C			
4.5	Apply infection prevention and control precautions (e.g., isolation management)	C			
4.6	Use personal protective equipment	C			

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		Required level	Attained level	If not attained at the required level, please provide explanation and comments	Indicate course/ lab/ rotation
4.7	Handle and dispose of biohazardous waste	C			
4.8	Adhere to Canadian Standards Association (CSA) standards for medical equipment	C			
4.9	Adhere to Department of Transportation/Transport Canada regulations for cylinders and medical gases	C			
4.10	Adhere to institutional/organizational disaster and mass casualty plan	C			

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5. ADMINISTRATION					
5.1	Demonstrate basic computer and electronic data management skills	C			
5.2	Participate in institutional/organizational and/or professional body/association meetings/committees	D			
5.3	Apply cost containment practices (i.e., cost effectiveness)	D			
5.4	Collect and provide work load measurement data	C			
5.5	Perform non-patient assessments (e.g., environment, risk management, resources, demographics)	D			
5.6	Evaluate the knowledge and performance of peers/students in order to be able to complete performance reports	D			

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		Required level	Attained level	If not attained at the required level, please provide explanation and comments	Indicate course/ lab/ rotation
5.7	Orient students and new staff	C			

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6. RESEARCH					
6.1	Use recognized research terminology (e.g., sample size, probability, validity)	D			
6.2	Contribute directly to research teams (e.g., data pool)	D			
6.3	Evaluate research data, methods, and outcomes with respect to validity and applicability to therapy and diagnostic procedures	D			

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		Required level	Attained level	If not attained at the required level, please provide explanation and comments	Indicate course/ lab/ rotation
7. HEALTH EDUCATION AND PROMOTION					
7.1	Provide cardio-respiratory education to patients/clients, family members, community, advocates and/or other healthcare professionals	C			



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7.2	Promote cardio-respiratory health	C			
7.3	Participate in community health programs	D			
7.4	Act as a patient advocate	C			

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8. PATIENT ASSESSMENT					
8.1	Conduct a comprehensive patient/client history (e.g., environmental, resources, equipment, safety, home evaluation, occupational evaluation, psycho-social, familial and medical history)	N C			
		P C			
		A C			
8.2	Conduct and interpret results of complete physical respiratory assessment (i.e., inspection, palpation, percussion, auscultation)	N C			
		P C			
		A C			
8.3	Conduct and interpret results of basic cardiac assessment	N C			
		P C			
		A C			
8.4	Interpret relevant diagnostic testing (e.g., chest radiography, lab data, oximetry)	N C			
		P C			
		A C			
8.5	Develop, monitor, assess and adjust respiratory treatment plan	N C			
		P C			

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		Required level	Attained level	If not attained at the required level, please provide explanation and comments	Indicate course/ lab/ rotation
		A C			
8.6	Develop discharge plan	A C			

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9. PHARMACOLOGY					
9.1	Assess need for medication	N C			
		P C			
		A C			
9.2	Select administrative method (e.g., inhalation, intravenous, instillation, intramuscular)	N C			
		P C			
		A C			
9.3	Calculate drug dosages within metric system	N D			
		P D			
		A D			
9.4	Verify medical prescription	N C			
		P C			
		A C			
9.5	Assess and recognize efficacy and side effects of medication	N C			
		P C			

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		Required level	Attained level	If not attained at the required level, please provide explanation and comments	Indicate course/ lab/ rotation
		A C			
9.6	Titrate dose of medication	N C			
		P C			
		A C			
9.7	Provide oxygen therapy using appropriate method	N C			
		P C			
		A C			
9.8	Administer substances (e.g., drugs, fluids) by inhalation	N C			
		P C			
		A C			
9.9	Administer substances (e.g., drugs, fluids) by injections	A C			
9.10	Administer substances (e.g., drugs, fluids) by instillation	N C			
		P C			
		A C			

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		Required level	Attained level	If not attained at the required level, please provide explanation and comments	Indicate course/ lab/ rotation
9.11	Administer substances (e.g., drugs, fluids) by infusion	A C			

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10. BRONCHOPULMONARY HYGIENE					
10.1	Perform sputum induction	A C			
10.2	Perform sputum collection procedures	N C			
		P C			
		A C			
10.3	Perform nasopharyngeal suction therapy	N C			
		P C			
		A C			
10.4	Perform oropharyngeal suction therapy	N C			

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		Required level	Attained level	If not attained at the required level, please provide explanation and comments	Indicate course/ lab/ rotation
		P C			
		A C			
10.5	Perform endotracheal suction therapy	N C			
		P C			
		A C			
10.6	Perform tracheostomy/laryngectomy suction therapy	N C			
		P C			
		A C			
10.7	Assist with body positioning techniques to facilitate bronchopulmonary hygiene	N L F			
		P L F			
		A C			
10.8	Provide humidity therapy using appropriate method	N C			
		P C			
		A C			
10.9	Perform lung volume recruitment maneuvers	P C			

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		A C			
10.10	Perform assisted cough maneuvers	A C			
10.11	Promote secretion clearance and breathing techniques	P C			
		A C			
10.12	Teach incentive spirometry	A C			

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		Required level	Attained level	If not attained at the required level, please provide explanation and comments	Indicate course/ lab/ rotation
11. AIRWAY MANAGEMENT					
11.1	Insert nasopharyngeal airways	P L F			
		A C			
11.2	Manage nasopharyngeal airways	P L F			
		A C			
11.3	Remove nasopharyngeal airways	P L F			
		A C			
11.4	Insert oropharyngeal airways	N L F			
		P L F			
		A C			
11.5	Manage oropharyngeal airways	N L F			
		P L F			
		A C			

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		Required level	Attained level	If not attained at the required level, please provide explanation and comments	Indicate course/ lab/ rotation
11.6	Remove oropharyngeal airways	N LF			
		P LF			
		A C			
11.7	Perform bag/mask ventilation with self-inflating resuscitator	N C			
		P C			
		A C			
11.8	Perform bag/mask ventilation with flow-inflating resuscitator	N C			
		P C			
		A C			
11.9	Perform endotracheal intubation	N HF			
		P HF			
		A C			
11.10	Assist with endotracheal intubation	N C			
		P C			
		A C			
11.11	Manage endotracheal tubes	N C			

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		Required level	Attained level	If not attained at the required level, please provide explanation and comments	Indicate course/ lab/ rotation
		P C			
		A C			
11.12	Change endotracheal tubes	N H F			
		P C			
		A C			
11.13	Remove endotracheal tubes	N C			
		P C			
		A C			
11.14	Perform ventilation via artificial tracheal airway with self-inflating resuscitator	N C			
		P C			
		A C			
11.15	Perform ventilation via artificial tracheal airway with flow-inflating resuscitator	N C			
		P C			
		A C			



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		Required level	Attained level	If not attained at the required level, please provide explanation and comments	Indicate course/ lab/ rotation
11.16	Insert tracheostomy	A C			
11.17	Assist with tracheostomy	A C			
11.18	Manage tracheostomy tubes	N C			
		P C			
		A C			
11.19	Change tracheostomy tubes	A C			
11.20	Remove tracheostomy tubes	A C			
11.21	Care for and maintain various types of surgical airways (e.g., laryngectomy)	A C			
11.22	Utilize specialized techniques and adjuncts to	P HF			

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		Required level	Attained level	If not attained at the required level, please provide explanation and comments	Indicate course/ lab/ rotation
	facilitate endotracheal intubation (e.g., fiberoptic assisted laryngoscopy)	A C			
11.23	Insert laryngeal masks	A C			
11.24	Manage laryngeal masks	A C			
11.25	Remove laryngeal masks	A C			
11.26	Manage difficult airway	N HF			
		P HF			
		A C			
11.27	Assist with insertion of specialized airways (e.g., armored tubes, double-lumen tubes)	A C			
11.28	Manage specialized airways (e.g., armored tubes, double-lumen tubes)	A C			

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		Required level	Attained level	If not attained at the required level, please provide explanation and comments	Indicate course/ lab/ rotation
11.29	Remove specialized airways (e.g., armored tubes, double-lumen tubes)	A C			
11.30	Wean from artificial airway intervention	N C			
		P C			
		A C			
11.31	Assist with speech therapy (e.g., speech valves)	A C			

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12. ANESTHESIA					
12.1	Set up and verify anesthetic equipment	A C			
12.2	Perform pre-anesthetic assessment of airway	A C			
12.3	Assist with general and regional anesthesia	A C			
12.4	Monitor patient/client status intraoperatively and manage symptoms	A C			
12.5	Monitor patient/client status post-operatively and intervene as requested	A C			
12.6	Manage fluid replacement (e.g., crystalloids, blood)	A D			

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12.7	Recognize complications related to anesthesia (e.g., malignant hyperthermia) and take corrective action	A D			
12.8	Provide thermal regulation	A C			
12.9	Perform patient positioning	N C			
		P C			
		A C			
12.10	Assist with anesthetic procedures outside of operating room (e.g., in radiology, magnetic resonance imaging, computed tomography)	P C			
		A C			
12.11	Assist with conscious sedation	P C			
		A C			
12.12	Perform conscious sedation as per protocols	A C			

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13. INVASIVE VASCULAR PROCEDURES					
13.1	Perform vascular access through IV	A C			
13.2	Assist with vascular access through central lines/pulmonary artery catheter	A C			
13.3	Use indwelling catheters to collect arterial samples	N C			
		P C			
		A C			
13.4	Use indwelling catheters to collect venous samples (e.g., central line)	A C			
13.5	Perform insertion of arterial lines	A C			
13.6	Assist with insertion of arterial lines	A C			

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		Required level	Attained level	If not attained at the required level, please provide explanation and comments	Indicate course/ lab/ rotation
13.7	Perform capillary puncture	N C			
		P C			
13.8	Perform blood gas analysis	N C			
		P C			
		A C			
13.9	Perform radial artery puncture	P C			
		A C			
13.10	Perform brachial artery puncture	A C			
13.11	Perform femoral artery puncture	A C			
13.12	Interpret blood gas analysis and co-oximetry results	N C			
		P C			
		A C			

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		Required level	Attained level	If not attained at the required level, please provide explanation and comments	Indicate course/ lab/ rotation
13.13	Interpret blood electrolytes and metabolites	N C			
		P C			
		A C			

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14. VENTILATION MANAGEMENT					
14.1	Initiate non-invasive mechanical ventilation	N C			
		P C			
		A C			
14.2	Maintain non-invasive mechanical ventilation	N C			
		P C			
		A C			
14.3	Initiate invasive mechanical ventilation	N C			
		P C			
		A C			
14.4	Maintain invasive mechanical ventilation	N C			
		P C			
		A C			
14.5	Wean from invasive ventilation	N C			
		P C			

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		A C			
14.6	Wean from non-invasive ventilation	N C			
		P C			
		A C			
14.7	Interpret ventilator waveforms	N C			
		P C			
		A C			
14.8	Measure and interpret pulmonary mechanics	N C			
		P C			
		A C			
14.9	Assess need for and initiate hyperinflation and/or lung volume recruitment techniques on ventilated patients	N C			
		P C			
		A C			
14.10	Initiate and maintain advanced modes of mechanical ventilation (e.g., HFOV)	N C			
		P C			
		A C			

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14.11	Perform apnea testing for the determination of brain death	A C			
14.12	Manage internal transport of a ventilated patient	N C			
		P C			
		A C			
14.13	Manage external transport of a ventilated patient	N C			
		P C			
		A C			
14.14	Manage internal transport of a non-ventilated patient	N C			
		P C			
		A C			
14.15	Manage external transport of a non-ventilated patient	A C			

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15. CARDIOPULMONARY RESUSCITATION & STABILIZATION					
15.1	Perform basic life support (BLS) protocols according to the current standards of the Heart & Stroke Foundation of Canada	N HF			
		P C			
		A C			
15.2	Perform pediatric advanced life support (PALS) protocols according to the current standards	P HF			
15.3	Perform neonatal resuscitation program (NRP) protocols according to the current standards	N HF			
15.4	Perform advanced cardiac life support (ACLS) protocols according to the current standards	A C			
15.5	Perform rapid response assessment skills	N C			
		P C			
		A C			



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16. CARDIAC DIAGNOSTICS					
16.1	Perform electrocardiogram	A C			
16.2	Interpret electrocardiogram	A C			
16.3	Set up and calibrate equipment for invasive hemodynamic procedures (e.g., pulmonary artery catheter, arterial lines)	A LF			
16.4	Interpret hemodynamic data	N D			
		P D			
		A C			

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17. PULMONARY DIAGNOSTICS AND INVESTIGATIONS					
17.1	Measure static and dynamic lung compliance	A C			
17.2	Perform walking oximetry	A C			
17.3	Perform flow/volume loop measurement	A C			
17.4	Measure lung volume, airway resistance and conductance by body plethysmography	A C			
17.5	Perform functional residual capacity (FRC) measurements	A C			
17.6	Measure pulmonary diffusion capacity	A C			

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		Required level	Attained level	If not attained at the required level, please provide explanation and comments	Indicate course/ lab/ rotation
17.7	Perform bronchoprovocation testing	A C			
17.8	Measure inspiratory and expiratory pressure by occlusion	A C			
17.9	Perform testing to appropriate American Thoracic Society standards	A C			
17.10	Interpret and validate pulmonary function test results	P D			
		A C			
17.11	Perform/teach peak flow monitoring	A C			
17.12	Assist with bronchoscopy procedures	P C			
		A C			
17.13	Perform laryngoscopy procedures	A C			

Self-Study - 2011 NCP Cross-Reference – Revised 2013



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		Required level	Attained level	If not attained at the required level, please provide explanation and comments	Indicate course/ lab/ rotation
17.14	Assist with laryngoscopy procedures	N C			
		P C			
		A C			
17.15	Perform transcutaneous monitoring (e.g., transcutaneous oxygen and carbon dioxide pressure [TcPO ₂ , TcPCO ₂])	N C			
17.16	Perform end-tidal carbon dioxide monitoring (e.g., setup and interpretation)	N C			
		P C			
		A C			
17.17	Perform basic sleep studies (e.g., oximetry plus one or more channels)	A C			
17.18	Perform overnight oximetry	A C			

N: Neonate, **P:** Pediatric, **A:** Adult

C: clinical; **D:** didactic; **LF:** low fidelity; **HF:** high fidelity



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		Required level	Attained level	If not attained at the required level, please provide explanation and comments	Indicate course/ lab/ rotation
18. ADJUNCT THERAPY					
18.1	Administer surfactant replacement therapy	N C			
18.2	Assist with surfactant replacement therapy	N C			
18.3	Administer specialty medical gases (e.g., Heliox, nitric oxide)	N C			
		P C			
		A C			
18.4	Perform medical gas analysis	N C			
		P C			
		A C			
18.5	Assist with esophageal placements (e.g., oral, nasogastric tubes, gastric suction)	A C			



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		Required level	Attained level	If not attained at the required level, please provide explanation and comments	Indicate course/ lab/ rotation
18.6	Assist with insertion of chest tube	A C			
18.7	Assist with thoracic suction or drainage therapy	A C			

N: Neonate, **P:** Pediatric, **A:** Adult

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