An Overview of Education and Training Requirements for Global Healthcare Professionals

Nursing *

GLOBAL KNOWLEDGE EXCHANGE NETWORK

on Healthcare

Workforce and Training Task Force



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EXECUTIVE SUMMARY

In the majority of reviewed countries, nursing education and training programs begin instruction after successful completion of secondary school and meeting criteria of the admitting institution. However, in the United States (US), requirements depend on the nursing track and the institution. Two-year registered nurse (RN) associate programs (ADN) are often direct admission from high school. Four-year bachelor of nursing (BSN) programs can include two years of coursework followed by special admission to the university's nursing program and another two years of nursing specific coursework, or four years of a generic nursing program leading to a BSN. Length of education and training for RNs is three to four years in all reviewed countries except for the US and Singapore. In these two countries, an individual can attend a "2-year program" and become an RN, even though the actual length of time often takes longer due to described "stringent requirements." Currently two-thirds of US nursing students graduate from an ADN program.

Of the countries reviewed in this report, a four-year BSN is currently required only in Canada, Australia and the US state of North Dakota as a standard for entry to practice. Germany and the United Kingdom (UK) are working towards reforming education standards,² and it is expected that England will require a four-year BSN in the next two to four years. (A BSN is also required in Scotland, Wales, and Northern Ireland, though these countries are not specifically addressed in this report.) Some US state organizations have adopted resolutions with regard to education standards – for example, New York and New Jersey are considering requiring that ADN new entry nurses earn a BSN within 10 years. However, there are some challenging issues in requiring a baccalaureate degree in the US, such as how to encourage advanced training without disenfranchising nurse colleagues who have only an ADN. Some research studies have examined the difficulty in transitioning to a mandated BSN, such as the case in New Brunswick, Canada, and cited a decrease in nurse direct care to patients, an increase in administrative roles, and strained working relationships between different nurse generations.³ Further, while some individuals support one entry level into practice such as a BSN, they also advocate for a stipulation that an ADN graduate continue to be accepted in professional practice with a five-year framework for completing the BSN degree.⁴ Amidst the debate, the National League for Nursing, the first professional association for nurses in the US, continues to stress the need for quality nursing education for all training levels of nurses in order to maintain a well-prepared workforce.

In response to concern about nursing program accessibility, the presence of online courses has increased. For example, in July 2009 the state of California started one of the first accredited online baccalaureate degree nursing programs for registered nurses. In addition, the number of nursing education institutions has increased in some countries, such as Singapore developing and opening its first local undergraduate nursing degree program. Licensure and certification are required following completion of educational programs for RNs in all reviewed countries, though the level at which it occurs differs (national, state, province, territory). Continuing education is most often encouraged but not mandated, though in the UK, RNs must have completed 450 working hours and 35 learning hours over three years in order to renew the nursing license. Other countries such as Singapore regulate continuing education at the advance practice nursing (APN) level by requiring 200 hours of clinical practice and 30 continuing professional development units for the annual renewal of practice certificate.

While the nursing profession and respective country associations continue to support prescription privileges for APN, and systematic reviews have favorably compared the quality of care APNs provide to that of physicians, the US and Canada vary by state and province on these rights and in the UK an APN or RN can attend non-medical prescription courses at an accredited institution to gain privileges.

SPOTLIGHT ON HEALTH OUTCOMES & NURSING EDUCATION

"It is nurses—of every stripe—who will deliver, coordinate, and direct care in hospitals, clinics, and physicians' offices, and it is these same most necessary nurses who are in short supply. Until the pipeline for advanced education in nursing is flowing freely, the nation's nurse workforce will have difficulty achieving its potential." ⁸

The nursing research literature highlights the relationship between education level and patient health outcomes, particularly the impact of having a baccalaureate degree. Higher education levels, specifically having a greater proportion of staff nurses with a minimum of a bachelor's degree, was significantly associated with decreased in-hospital mortality, length of stay, medication errors and procedural violations. These trends were noted across multiple countries and nursing specialties.⁹

However, a nursing shortage has also been observed globally. The United States Health Resources and Service Administration estimates that the nursing shortage will reach between 500,000 and 1 million by the year 2020. In spite of the shortage, potential nursing students are being turned away, not for lack of fulfilling the entry requirements, but due to insufficient institutional staff and resources. The American Association of Colleges of Nursing reports that over 40,000 qualified applicants were not accepted at American baccalaureate nursing schools in 2008, up from 3,600 in 2002. The most commonly cited reasons were lack of faculty (62.5%), insufficient clinical teaching sites (53.8%) and limited classroom space (42.3%). The World Health Organization Core Indicators for Health maintains databases on the global nursing density by country and it ranges from 45 nurses per 10,000 people in Singapore to 80 in France and 128 in the United Kingdom. The Clinton HIV/AIDS initiative also cites "varied education requirements to become a licensed nurse" as a significant policy issue in nursing education. In policy issue in nursing education.

With the current workforce conditions and research findings in mind, healthcare professionals are considering many approaches to address the nursing shortage, improve nursing education, and potentially making the baccalaureate degree a required standard for entry to practice. While some countries such as Canada require a baccalaureate degree for nursing practice, in the United States the National Council of State Boards for Nursing reports that two-thirds of new nurse graduates attended associate degree programs. Increased collaboration between universities and funding bodies has been suggested as a necessary step to address the educational capacity issue. In a collaboration such as the Committee on Inter-Institutional Cooperation, the institutions share faculty, curriculum, simulation technology, clinical placement sites, and application portals.¹³ Further, the private sector has responded with hospital based scholarships and faculty loan agreements as well as successful funding partnerships between foundations, state and federal government, and private hospitals.¹⁴ Other notable innovations include cooperation between the United States Department of Education and the European Commission on Higher Education to develop a transatlantic curriculum and dual degree program in nursing.¹⁵ In addition to creating nurses that can easily work in other countries, the Transatlantic Nursing Curriculum Project exists to share evidenced- based education practice standards.¹⁶ For more information about the international endeavor, visit: http://www.tcn-atlantis.org/home_m4gb.html.

EDUCATION AND TRAINING REQUIREMENTS FOR NURSES





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The nursing profession has a great international legacy and has undergone reform and advances to the training and regulation processes in order to meet the changing health needs of the global population.

The Nursing Research Unit at King's College London recently conducted an assessment of the nursing education requirements and regulation systems in 18 OECD countries that facilitates cross-country comparisons.

The research document, "Nursing Education and Regulation: International Profiles and Perspectives" (2007), written by Sarah Robinson and Peter Griffith, and commissioned by the United Kingdom's Department of Health, can be accessed here:

http://www.kcl.ac.uk/content/1/c6/03/07/33/NurseEduProfiles.pdf

TABLE 1: NURSE TRAINING AND EDUCATION – SELECT COUNTRIES 17

Requirement		US		UK		Australia		Germany	
Previous Post- Secondary	CNA	No	AP	No	CA	No	AN	No	
Coursework /# years	LPN/LVN RN	No Varies by degree program, 2-4	RN	No, programs begin after completing secondary education	RN	No, programs begin after completing secondary education	1 st Level	2	
	APRN	2-4	ANP	3 - 4	ANP	3 + 1 year working	2 nd Level	2	
Years of nursing school	LPN/LVN	1	AP	1	CA	1			
	RN	2 - 4	RN	3 - 4	RN	3	First Level	3 - 4	
	APRN	4 - 6	ANP	5 - 6	ANP	4 – 6	Second Level	1	
Degree Title	Associate Degree in Nursing or Applied Science in Nursing (ADN) Bachelor of Nursing (BSN) Master of Nursing (MSN) Doctorate in Nursing (DPN)		Diploma of Higher Education in Nursing (Dip HE Nursing) Bachelor of Science in Nursing or European Nursing (BSc) Master of Philosophy in Nursing (M.Phil) Doctor of Philosophy in Nursing (PhD)		Diploma in nursing (enrolled nurse) Bachelor of Nursing (RN) Master in Advanced Nursing Practice (ANP) Doctorate in Nursing		Nursing Diploma (Hospital – based) Bachelor's Degree in Nursing		
Position Title	Certified Nurse's Assistant (CNA) Licensed Practical/Vocation Nurse (LPN/LVN) Registered Nurse (RN) Advanced Practice Registered Nurse (APRN)		Assistant Practitioner (AP) Registered Nurse (RN) Advanced Nurse Practitioner (ANP)		Care Assistant (CA) Registered Nurse (RN) Enrolled Nurse Practice Nurse (employed by medical general practices)		Assistant Nurse (AN) First Level Nurse (General, Pediatric, Geriatric) Second Level Nurse		
Specialty training		al for LPN and RN by n exam, required for APRN	post-re	ptional through short term egistration clinical courses and raduate courses	Yes		Yes, optional 2 year hospital based programs		
Licensing & Certification	LPN/LVN & RN: National Council of State Boards of Nursing (NCSBN) and States' Nursing Board APRN: States' Nursing Board		Nursing & Midwifery Council http://www.nmc-uk.org/		Australian Nursing and Mid- wifery Council (ANMC) and Nursing and Midwifery Regulatory Authority (in respective state or territory)		No national registration system or regulatory nursing body (at regional level); federal states regulate Second Level education and specialization		
Continuing Education & License Re- newal	AID=6365	nursingcenter.com/pdf.asp? 79	workii	val every 3 years; requires 450 ng hours and 35 learning hours	Annual re-licensure national regulation expected in No 2010, ANMC developed Continuing Competence Framework in 2009				
Prescriptive Privileges	APRN privi	leges vary by state		ttained through prescription courses at ited institutions	No		No		

Requirement	(Canada		France		Singapore	
Previous Post- Secondary Coursework /#	RN	No, programs begin after secondary education	RN	No, programs begin after secondary education	RN	No, programs begin after secondary education	
years	ANP				APN		
Years of nursing school	RN	3 – 4	RN	3	RN	2 – 4	
	Post Basic RN BSN	2 - 3	Specialty training	0 – 2 years professional experience and 18 – 24 months additional training	Registered Midwife	Additional 1 year for RN	
Degree Title	provinces)	ing (BN required in all other Nurse Baccalaureate in	Vocational State Diploma (Hospital-based) Not currently available at master's level		Diploma in Nursing National ITE Certificate in Nursing Bachelor of Nursing (for RN)		
Position Title	Registered Nurse Advanced Nursing Pra Specialist and Nurse F		Registered Nurse Nurse Clinician (not currently at master's level, French National Authority for Health considering adding Nurse Practitioner role)		Registered Nurse Enrolled Nurse Registered Midwife (for RN) Advance Practice Nurse (APN)		
Specialty training	fered by Canadian Nu	r certification for RNs of- rsing Association in 19 Required for Advanced	Yes Child Care Nurse Nurse Anesthetist Operating Room N	urse	Yes		
Licensing & Certification			No State licensure, certification	Ministry of Health approves	Yes, Singapo	ore Nursing Board	
	provincial/default_e.as	n/CNA/about/members/ spx	7				
Continuing Education & License Renewal	continuing competenc territory regulatory bo	Ontario have formal nursing e programs. The province/ dies do not have specific CE c CE programs to assess	No state requirements		Nurse/Midwife: Annual renewal of practice certificate, continuing education strongly recommended but not required		
	continuing education trecords to maintain sp	ınits. Nurses keep CE				al renewal of practice certificate, 200 hours actice and 30 continuing professional units	
Prescriptive Privileges	APN privileges vary b	y province and territory	No		No		

PROFESSIONAL ORGANIZATIONS AND RESOURCES

United States

- National Council of State Boards of Nursing, https://www.ncsbn.org
- States' Boards of Nursing, http://www.medscape.com/viewarticle/482270
- American Nurses Foundation, http://www.anfonline.org/
- American Nurses Association, http://www.nursingworld.org/
- National League for Nursing, http://www.nln.org/
- American Nursing Organizations, compiled by National Student Nurses Association, http://www.nsna.org/pdf/Imprint_Jan08 NursingOrgList.pdf

United Kingdom

- Nursing & Midwifery Council, http://www.nmc-uk.org/
- British Nursing Association, http://www.bna.co.uk/
- Community and District Nursing Association, http://www.cdna-online.org.uk/
- Commonwealth Nurses Federation, http://www.commonwealthnurses.org

Australia

- Australian Nursing Federation, http://www.anf.org.au/
- Australian Nursing and Midwifery Council (ANMC), http://www.anmc.org.au/
- Nursing and Midwifery Regulatory Authority, http://www.midwives.org.au/UsefulLinks/NursingandMidwiferyRegulatoryAuthorities/tabid/319/Default.aspx

France

- Ministry of Health, http://www.sante-jeunesse-sports.gouv.fr/
- Association de Recherche en Soins Infirmiers (French Nursing Research Association), http://www.arsi.asso.fr/

Germany

- Der Deutsche Berufsverband für Plfegeberufe (German Nursing Association), http://www.dbfk.de/
- International Federation of Nurse Anesthetists, http://www.ifna-int.org

Canada

- Canadian Nurses Association, http://www.cna-nurses.ca/cna/
- Canadian Nurses Foundation, http://www.cnf-fiic.ca/
- Provincial and Territorial Regulatory Bodies, http://www.cna-aiic.ca/CNA/nursing/regulation/regbodies/default_e.aspx
- The Canadian Nursing Index, http://www.nursingindex.com/
- Sigma Theta Tau International Honor Society of Nursing North American Nursing Organizations, http://www.nursingsociety.org/GlobalConnect/organizations/Pages/NursingOrganizationsCanada.aspx

Singapore

- Singapore Nurses Association, http://www.sna.org.sg/site/
- Singapore Nursing Board, http://www.snb.gov.sg/html/SNB Home.html
- Health Professional Portal, http://www.hpp.moh.gov.sg
- Ministry of Health, Singapore Careers in Nursing, http://www.moh.gov.sg/mohcorp/careers.aspx?id=256

Other Resources:

- The Transatlantic Nursing Curriculum Project, http://www.tcn-atlantis.org/
- International Council of Nurses, http://www.icn.ch/
- International Center for Nursing Scholarship, http://www.nursingsociety.org/aboutus/Pages/AboutUs.aspx
- Nursing Knowledge International, http://www.nursingknowledge.org
- Foundation for Nursing Education, http://www.nlnfoundation.org/index.cfm
- National League for Nursing Nursing Education Research, http://www.nln.org/research/index.htm

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¹¹ Robert Wood Johnson Foundation, *Qualified Applications Turned Away from Entry-Level Baccalaureate Nursing Programs: 2002 – 2008*, http://www.rwjf.org/pr/product.jsp?id=45732.

¹² Sliney, A., "Global Nursing Faculty Shortage: Innovative Approaches," July 1, 2009, Clinton HIV/AIDS Initiative, http://www.icn.ch/congress2009/presentations/M16 SLINEY 4B/index.html.

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