A: Nursing Knowledge
A Licensed Practical Nurse will:

A-1-1 Identify the structures and functions of the body.

A-1-2 Describe the anatomical organization of the body.

A-1-3 Describe the cellular chemistry and organization of the body.

A-1-4 Describe cellular functions: protein synthesis, cell division and movement of substances across the cell membrane.

A-1-5 Explain how cells are organized into tissue, organs and systems of the body.

A-1-6 Identify the structure and explain the function of body systems:
- cardiovascular system
- circulatory system
- digestive system
- endocrine system
- genitourinary system
- immune system
- integumentary system
- lymphatic system
- musculoskeletal system
- nervous system and special senses
- reproductive system
- respiratory system

A-1-7 Identify the components of blood and blood products.

A-1-8 Describe the major body processes of:
- homeostasis
- metabolism
- reproduction
A Licensed Practical Nurse will:

A-2-1 Explain characteristics of micro-organisms and their role in the transmission of disease.

A-2-2 Describe and differentiate pathogens and non-pathogens.

A-2-3 Describe and differentiate bacteria, viruses and fungi.

A-2-4 Describe the normal micro-organisms within the human body.

A-2-5 Describe conditions for growth and transferability of micro-organisms.

A-2-6 Explain the concept of asepsis.

A-2-7 Explain the principles of disease prevention and health promotion.

A-2-8 Describe the concept of infection prevention and control.
A Licensed Practical Nurse will:

A-3-1 Define pathophysiology as the science of physiological and psychological disease processes within the human body.

A-3-2 Identify and describe pathophysiological processes including:
- acute conditions/disorders
- chronic conditions/disorders
- complications
- etiology (cause of disease)
- manifestations (signs and symptoms)
- pathophysiology (disease process)

A-3-3 Identify the etiology, pathophysiology and complications of common health problems for all body systems.

A-3-4 Describe body responses to disease including:
- carcinogenesis
- cellular/tissue/organ/system level
- genetic
- immunity
- inflammation
- psychological
- stress

A-3-5 Describe the processes of inflammation, infection and healing.

A-3-6 Explain types of trauma including:
- addictions
- burns
- fractures
- hemorrhage
- mental health
A Licensed Practical Nurse will:

**A-3-6** Explain types of trauma such as: (cont’d)
- multisystem failure
- neurological
- psychological
- shock
- surgical

**A-3-7** Explain common medical management in relation to pharmacology, surgery, anesthesia and treatments.

**A-3-8** Describe diagnostic tests commonly used in healthcare.
A Licensed Practical Nurse will:

A-4-1 Identify meanings of common prefixes, suffixes and root words used in reporting and documenting.

A-4-2 Identify common abbreviations used in healthcare.

A-4-3 Use appropriate medical terminology in reporting and documentation.

A-4-4 Apply agency policy regarding use of abbreviations and medical terminology.
A Licensed Practical Nurse will:

A-5-1 Explain theories of human growth and development across the life span.

A-5-2 Describe the stages of growth and development across the life span.

A-5-3 Describe significant physical, psychological, social, cognitive, moral, spiritual and cultural developments across the life span.

A-5-4 Describe how factors of environment, genetics, culture, lifestyle, religion and maturation influence growth and development.

A-5-5 Describe the process of learning across the life span.

A-5-6 Describe the stages of death, dying, grief and the grieving process.
A Licensed Practical Nurse will:

A-6-1 Describe the importance of nutrition to health and recovery.

A-6-2 Identify the functions, major sources and daily requirements for common nutrients including:
- carbohydrate
- fat
- fiber
- minerals
- protein
- vitamins

A-6-3 Identify Canada’s Food Guide and/or special dietary requirements for healthy and chronic conditions across the life span.

A-6-4 Identify factors that affect nutrition and hydration.

A-6-5 Identify indicators of adequate and inadequate nutrition and hydration.

A-6-6 Describe methods to assess nutrition and hydration status including:
- body mass index
- diet history
- food allergies
- general appearance
- height and weight
- intake/output
- lab values
- perception of body image
- skin turgor
- swallowing
- waist circumference

A-6-7 Describe the purpose and elements of therapeutic diets.

A-6-8 Identify when to consult with a dietician/nutritionist.
A Licensed Practical Nurse will:

A-7-1 Define pharmacology.

A-7-2 Describe the process of pharmacokinetics and pharmacodynamics across the life span.

A-7-3 Identify classifications, generic and trade names of drugs and appropriate pharmacological resources.

A-7-4 Describe the principles of pharmacology management including:
  - assessment
  - controlled substances
  - documentation
  - policy and procedures
  - safe handling (storage, transport, disposal)
  - the rights

A-7-5 Identify the common routes of medication administration.

A-7-6 Recognize high/low/expected lab values related to pharmacology.

A-7-7 Describe effects of drugs including:
  - adverse reaction
  - allergic reaction
  - body system impact
  - drug interactions
  - side effects
  - synergistic effects (additive and antagonistic).
  - therapeutic effects

A-7-8 Describe the signs, symptoms and treatment of anaphylaxis.
A Licensed Practical Nurse will:

A-7-9 Identify common systems of measurement in medication administration.

A-7-10 Identify formulas to calculate medication dosages.

A-7-11 Differentiate between intentional and unintentional drug use and dependence.

A-7-12 Differentiate between physiological and psychological dependence.

A-7-13 Identify common drug/medication legislation and standards.

A-7-14 Identify roles and responsibilities of inter-professional team related to pharmacology.
A Licensed Practical Nurse will:

A-8-1 Describe fundamentals of nursing knowledge that encompass human caring related to arts, science and humanitarianism including:
- experiences
- phenomena
- processes

A-8-2 Understand foundations of English language and literacy:
- comprehension
- content
- grammar
- mechanics
- organization
- rhetorical analysis
- writing skill and style

A-8-3 Identify effective communication strategies to engage with individuals, groups and communities:
- interpersonal
- professional
- therapeutic

A-8-4 Identify foundational concepts of personal health and wellness related to individuals, groups and communities including:
- addictions
- communicable disease control
- immunization
- mental health/stress management
- neglect/abuse
- nutrition/physical activity
- population health
- prevention/wellness
- sexual activity/family planning
- violence
A Licensed Practical Nurse will:

A-8-5  Describe foundations of health and wellness of self and others across the lifespan:
- environmental
- psychological
- physical
- social
- spiritual

A-8-6  Describe determinants of health and impact on individual health and wellness.

A-8-7  Understand foundations of psychology in relation to human behavior and development across the lifespan including:
- behavior
- cognition and intelligence
- conditioning and learning
- emotion and motivation
- memory
- perception
- sensation
- states of consciousness
- stress and health
- psychological health and illness

A-8-8  Understand the concept of advocacy through promotion of wellness behavior and practices for:
- individuals
- groups
- communities

A-8-9  Demonstrate knowledge of foundations of sociology related to social behavior and relationships across the lifespan:
- social
- biological
- emotional
- political
A Licensed Practical Nurse will:

A-8-9 Demonstrate knowledge of foundations of sociology related to social behavior and relationships across the lifespan: (cont’d)
- cultural
- cognitive
- spiritual

A-8-10 Demonstrate knowledge and ability to apply foundations of sociology to ethical nursing practice.
A Licensed Practical Nurse will:

A-9-1  **Demonstrate knowledge and ability to apply critical thinking and critical inquiry in validation and application of research:**
- applicability
- consistency of data
- ethical, political, professional issues
- identifiable bias
- method and sources
- relevance
- trustworthiness

A-9-2  **Demonstrate knowledge and ability to implement best practices and research into evidence informed practice.**

A-9-3  **Demonstrate knowledge and ability to involve clients, families and inter-professional team in formalized research.**

A-9-4  **Demonstrate ability to collaborate with research team to plan, conduct and evaluate nursing research.**