

BB: Orthopedic Specialized Area of Practice

Major Competency Area: **BB**
Orthopedic Specialized Area of Practice

View the [Specialized Areas of Practice](#) Practice Guideline for more information.

Competency: **BB-1**

**Knowledge and Application of
Orthopedic Specialty**

Date: June 25, 2015

A Licensed Practical Nurse will:

BB-1-1 Demonstrate knowledge of human anatomy and physiology of:

- body systems
- body planes and directions
- related terminology

BB-1-2 Demonstrate knowledge of orthopedic medical conditions and treatment:

- trauma:
 - dislocations
 - multiple fractures
 - compartment syndrome
 - fat embolism
- fractures:
 - spinal
 - extremities
 - pelvis
 - ribs
- arthritis:
 - ankylosing spondylitis
 - rheumatoid
 - degenerative
 - juvenile
- infection:
 - osteomyelitis
 - bursitis
 - general
- tears:
 - ligaments
 - tendons
 - meniscus
 - soft tissue injury

Competency: **BB -1**

**Knowledge and Application of
Orthopedic Specialty**

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A Licensed Practical Nurse will:

BB-1-2 Demonstrate knowledge of orthopedic medical conditions and treatment (con't):

- other:
 - muscle injuries
 - osteoporosis
 - congenital disorders
 - kyphosis / scoliosis
 - contractures /deformities
 - growths / tumours

BB-1-3 Demonstrate ability to perform comprehensive assessment of the orthopedic client.

BB-1-4 Demonstrate the ability to recognize a variety of x-ray views such as:

- anterior / posterior
- axilla
- lateral
- mandibular
- panorex
- posterior / anterior
- oblique
- transverse
- tunnel

BB-1-5 Demonstrate ability to teach the use of orthopedic equipment such as:

- cane
- cast removal equipment
- CPM machine (continuous passive motion)
- crutches
- walker

BB-1-6 Demonstrate ability to measure angles of joints using a goniometer.

BB-1-7 Demonstrate ability to receive verbal and written physician orders pertaining to orthopedics:

- accept , transcribe and initiate orders

BB-1-8 Demonstrate knowledge and ability to assist the physician with a variety of treatments and interventions such as:

- setting a fracture of a bone
- inserting or removing orthopedic devices

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Competency: **BB -2**
**Application of Orthopedic
Devices**

Date: June 25, 2015

A Licensed Practical Nurse will:

BB-2-1 Demonstrate ability to teach the application of orthopedic devices:

- acromioclavicular harness
- airsplints
- ankle brace
- ankle foot orthosis
- back braces
- clavicle strap
- elastic support stockings
- finger splint
- fracture brace
- gibney boot
- hare's traction
- hinged knee brace
- humeral fracture brace
- iso-ulnar brace
- jones bandage
- pavlik harness
- sager splint
- shoulder immobilizer / sling and swath/ velpeau
- soft/ hard cervical collar/ triple ruff
- stump wrapping
- tibial / femoral braces
- tensors / tubigrip
- zimmer splint / knee immobilizer

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Competency: **BB-3**
Cast and Splint Care

Date: June 25, 2015

A Licensed Practical Nurse will:

BB-3-1 Demonstrate knowledge of construction, application, removal, and teaching of cast and splint care such as:

- above elbow
- above knee – walking and non-walking
- back slabs
- below elbow
- below knee- walking and non-walking
- body casts
- cylinder casts
- gutter splints
- hip spica
- patella tendon bearing
- plaster vs. fibreglass
- sugar tong
- spica casts
- uni-valve, bi-valve, windowing, trimming
- volar labs
- wedging

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Competency: **BB-4**
**Application and Monitoring
of Traction**

Date: June 25, 2015

A Licensed Practical Nurse will:

BB-4-1 Demonstrate ability to set-up, apply, assist in application, and monitor manual, skin, and skeletal traction:

- balanced suspension
- Balkan frame
- Bryant or Gallows
- Bucks
- Gardner Wells
- pelvic
- Russells or Split Russells
- skeletal
- skin
- skull
- Steinmen Pin insertion

BB-4-2 Demonstrate knowledge and application of casts for treatments of fractures, dislocations, and skeletal disorders:

- closed reductions under conscious sedation or use of bier blocks (ATS tourniquet)

BB-4-3 Demonstrate ability to assist with application of traction, insertion and removal of pin devices:

- Crutchfield tongs
- External Fixators
- Gardner Wells tongs
- Halo devices
- Kirschner wires
- Steinmen pen

BB-4-4 Demonstrate ability to teach client and family regarding orthopedic treatment and care:

- orthopedic condition
- equipment and devices
- orthopedic procedures
- physician orders and treatment plan