



*Focused hands-on skills development leading to proficiency in ultrasound guided needle placement.*

## **SCHEDULED DATES 2025**

Jan 25, Feb 15, Mar 8, Apr 26, May 17

10 A.M. – 2 P.M.

## **FORMAT**

- 4 hours focused on hands on training.
- Scheduled or Private (minimum 4 attendees/maximum 10).
- Dedicated location with a range of ultrasound machines.
- Advanced simulation and real time ultrasound scanning with the latest in needle guidance technology.
- Block and procedure specific simulation workshops on request.

## **VALKYRIE ACADEMY**

**81 War Memorial Drive, Suite C  
Berkeley Springs WV 25422**

**COST  
\$450**



## OBJECTIVES

- State the fundamentals of ultrasound physics and demonstrate appropriate optimization for system controls.
- Demonstrate image orientation, transducer preparation, and scan protocols for scanning with ultrasound.
- Perform image adjustments for optimal success and understand doppler fundamentals.
- Recognize appearance of key anatomy under ultrasound.
- Acquire skills to guide a needle with ultrasound both in-plane and out-of-plane with confidence to an identified target.

## AGENDA

### Session 1: How to operate an ultrasound machine & optimize the image.

- Understand ultrasound technology and the science behind it.
- Develop comprehensive understanding of device settings for optimal results.
- Achieve skills to fine-tune settings, enhancing ultrasound imagery.
- Master the core transducer manoeuvres and scanning techniques for optimal image acquisition.

### Session 2: Essential transducer manoeuvres and object recognition.

- Recognize the ultrasonographic appearance of structures relevant to regional anaesthesia & Ultrasound Artifacts.
- Confidently identify nerves, fascicles, tendons, blood vessels, bone, muscle, and fascial planes.
- Recognize the most common ultrasound artifacts.

### Session 3: Needle Techniques

- Master the techniques to guide needles both in-plane and out-of-plane, ensuring precise targeting every time.
- Master probe cover usage and catheter placement.

### Session 4: Hands On

- Hands on practise of all developed skills using anatomical simulators.

