ULTRASOUND LAB SETUP CHECKLIST

Use this checklist as a comprehensive planning and quality assurance tool for designing, assessing, or upgrading your ultrasound training lab. It is built to align with standards from CAAHEP, JRC-DMS, ARDMS, AIUM, and SDMS, and supports clinical competency, credentialing readiness, and institutional excellence.

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EQUIPMENT & SIMULATION TECHNOLOGY

- ☐ **High-fidelity ultrasound simulators** that replicate real scan anatomy and scanning conditions (e.g., OB/GYN, abdominal, cardiac, MSK, vascular)
- ☐ **Realistic transducers** with haptic/tactile feedback and probe orientation tracking
- ☐ **Portable/mobile ultrasound units** for in-situ and cross-departmental simulation
- ☐ **Digital image libraries** with thousands of normal and abnormal pathology examples across specialties
- ☐ **Instructor dashboards** for performance tracking, metrics, and remote guidance
- ☐ **Recording capabilities** for scan review, debriefing, and student self-reflection
- ☐ **PACS integration** or DICOM export capabilities for clinical documentation practice
- ☐ **Scanning manikins or phantoms** that support probe handling and full procedural simulation

LEARNING SPACE & LAB DESIGN

- ☐ **Adjustable scanning stations** with ergonomic setups (e.g., height-adjustable tables, proper lighting)
- ☐ **Ceiling-mounted cameras or dual monitors** for real-time instruction and demonstration
- ☐ **Multi-use lab design** that allows flexibility between solo practice, group instruction, and OSCE-style assessments
- ☐ **Debrief spaces** for faculty-led feedback, reflection, and team reviews
- ☐ **Secure storage** for transducers, cables, and instructional materials
- ☐ **Network infrastructure** that supports video capture, image sharing, and cloud-based simulation tools
- ☐ **Noise isolation** or acoustically treated spaces to allow clear communication and focus during scanning

CURRICULUM INTEGRATION & ASSESSMENT TOOLS

- ☐ **Simulation-based curriculum modules** mapped to CAAHEP/JRC-DMS competencies and institutional learning outcomes
- ☐ **Milestone-based progression** across terms or semesters for longitudinal skill building
- ☐ **Case-based learning scenarios** (e.g., trauma, high-risk pregnancy, cardiac arrest)
- ☐ **Image acquisition and interpretation rubrics** tailored to ARDMS and CCI exams
- ☐ **OSCE-style evaluation stations** with real-time scoring and observation
- ☐ **Digital student portfolios** that track scanning practice, skill progression, and competency validation
- ☐ **Credentialing prep content** including SPI review modules, sample boards-style questions, and feedback from certified faculty
- ☐ **Competency checklists** for image quality, anatomical identification, clinical correlation, and procedural accuracy

ACCREDITATION & CREDENTIALING ALIGNMENT

- ☐ **Documentation for CAAHEP accreditation** showing student performance and program effectiveness
- ☐ **ARDMS/CCI registry prep** embedded into simulation objectives and assessments
- ☐ **Alignment with AIUM standards** for safe, supervised scanning practices
- ☐ **Program evaluation metrics** linked to student outcomes, credentialing rates, and employer feedback
- ☐ **Simulation participation included in clinical readiness documentation**
- ☐ **Use of simulation for re-assessment and remediation** tied to academic policy
- ☐ **Clear use policies for simulation labs,** including scheduling, usage logs, and faculty oversight

FACULTY DEVELOPMENT & PROGRAM SUPPORT

- ☐ Faculty trained in simulation pedagogy and ultrasound-specific instruction techniques
- ☐ Faculty calibration tools for consistent and fair student evaluations
- ☐ Ongoing professional development in current ultrasound guidelines, emerging technologies, and teaching methodologies
- ☐ Access to peer-reviewed teaching resources, case banks, and sonographic teaching aids
- ☐ Faculty time allocated for simulation development, student coaching, and assessment
- ☐ Integration of simulation into performance improvement plans for instructors and departments

Use this checklist to ensure your ultrasound training lab is aligned with modern expectations for simulation-based education, credentialing success, and safe, effective clinical practice.

Need help planning for or upgrading your ultrasound simulation environment?

Request a free consultation with WorldPoint's team or explore our high-fidelity ultrasound training models and curriculum tools: **www.worldpoint.com/contact**