

Name: \_\_\_\_\_

**Diagnostic Medical Sonography/Sonographer**

**Directions:**

Evaluate the student by entering the appropriate number to indicate the degree of competency. The rating for each task should reflect employability readiness rather than the grades given in class.

**Student Rating Scale:**

- 0 No Exposure** – no experience/knowledge in this area
- 1 Knowledge Received** – area is understood
- 2 Limited Skill** – has exposure, but additional training and supervision is required
- 3 Moderately Skilled** – limited training and supervision may be required, but progress is being made
- 4 Skilled** – no additional training is required; the competency has been mastered and knowledge can be transferred to other applications

| 0 | 1 | 2 | 3 | 4 | A. Communicate Effectively   | Notes: |
|---|---|---|---|---|--|--------|
|   |   |   |   |   | 1. Use medical terminology and abbreviations appropriately                                     |        |
|   |   |   |   |   | 2. Demonstrate good oral communication skills  |        |
|   |   |   |   |   | 3. Demonstrate good written communication skills   |        |
|   |   |   |   |   | 4. Use appropriate and professional non-verbal communication skills                            |        |
|   |   |   |   |   | 5. Demonstrate basic computer skills (e.g., turn on and off and navigate the operating system) |        |
|   |   |   |   |   | Other:   |        |

| 0 | 1 | 2 | 3 | 4 | B. Apply the Essential Sciences                                    | Notes: |
|---|---|---|---|---|--|--------|
|   |   |   |   |   | 1. Explain principles of physics that relate to sonography         |        |
|   |   |   |   |   | 2. Apply principles of physics that relate to sonography           |        |
|   |   |   |   |   | 3. Explain principles of chemistry that relate to sonography       |        |
|   |   |   |   |   | 4. Apply principles of chemistry that relate to sonography         |        |
|   |   |   |   |   | 5. Explain principles of algebra that relate to sonography         |        |
|   |   |   |   |   | 6. Apply principles of algebra that relate to sonography           |        |
|   |   |   |   |   | 7. Analyze statistical data  |        |
|   |   |   |   |   | 8. Identify normal anatomy and physiology for general sonography   |        |
|   |   |   |   |   | 9. Describe normal anatomy and physiology for general sonography   |        |
|   |   |   |   |   | 10. Identify normal anatomy and physiology for cardiac sonography  |        |
|   |   |   |   |   | 11. Describe normal anatomy and physiology for cardiac sonography  |        |
|   |   |   |   |   | 12. Identify normal anatomy and physiology for vascular sonography |        |
|   |   |   |   |   | 13. Describe normal anatomy and physiology for vascular sonography |        |
|   |   |   |   |   | 14. Recognize proper cross-sectional human anatomy                 |        |
|   |   |   |   |   | Other:   |        |

| 0 | 1 | 2 | 3 | 4 | <b>C. Demonstrate Ethics and Professionalism</b>  | <b>Notes:</b> |
|---|---|---|---|---|---|---------------|
|   |   |   |   |   | 1. Demonstrate a proper work ethic (e.g., attire, punctuality, attitude, and dependability)                         |               |
|   |   |   |   |   | 2. Demonstrate effective interpersonal relations skills   |               |
|   |   |   |   |   | 3. Demonstrate the ability to be flexible and adaptable (e.g., scheduling, working conditions, location, and hours) |               |
|   |   |   |   |   | 4. Demonstrate respect for client privacy   |               |
|   |   |   |   |   | 5. Demonstrate compassion, understanding, and empathy   |               |
|   |   |   |   |   | 6. Follow the rules and regulations of the school, program, and affiliates  |               |
|   |   |   |   |   | 7. Follow federal, state, and local regulations and guidelines  |               |
|   |   |   |   |   | 8. Explain the purpose of maintaining client confidentiality  |               |
|   |   |   |   |   | 9. Describe the legal, moral, and ethical aspects of sonography   |               |
|   |   |   |   |   | 10. Discuss current moral and ethical health issues (e.g., breast exams, rectal exams, and testicular exams)        |               |
|   |   |   |   |   | Other:  |               |

| 0 | 1 | 2 | 3 | 4 | <b>D. Apply Principles of Health</b>   | <b>Notes:</b> |
|---|---|---|---|---|--|---------------|
|   |   |   |   |   | 1. Describe the importance of physical and mental health throughout the lifespan |               |
|   |   |   |   |   | 2. Describe the holistic approach as it relates to illness and health            |               |
|   |   |   |   |   | 3. Assist the client with grief and loss   |               |
|   |   |   |   |   | Other:   |               |

| 0 | 1 | 2 | 3 | 4 | <b>E. Display Physical Attributes</b>  | <b>Notes:</b> |
|---|---|---|---|---|--|---------------|
|   |   |   |   |   | 1. Discuss ergonomic techniques (e.g., client, sonographer, and machine position)  |               |
|   |   |   |   |   | 2. Demonstrate appropriate ergonomic techniques  |               |
|   |   |   |   |   | 3. Apply principles of body mechanics (e.g., client position, client transfer, pushing a machine, carrying a client, and lifting a client) |               |
|   |   |   |   |   | Other:   |               |

| 0 | 1 | 2 | 3 | 4 | <b>F. Apply Safety Techniques</b>                               | <b>Notes:</b> |
|---|---|---|---|---|---|---------------|
|   |   |   |   |   | 1. Discuss the bio-ethics of sonography                         |               |
|   |   |   |   |   | 2. Discuss equipment safety                                     |               |
|   |   |   |   |   | 3. Discuss pharmacodynamics that relate to sonography and drugs |               |
|   |   |   |   |   | 4. Wash hands properly  |               |
|   |   |   |   |   | 5. Follow body substance isolation (BSI)                        |               |

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|--|--|--|--|--|---|--|
|  |  |  |  |  | 6. Clean and disinfect equipment  |  |
|  |  |  |  |  | 7. Dispose of contaminated equipment and material   |  |
|  |  |  |  |  | 8. Perform basic life support   |  |
|  |  |  |  |  | 9. Apply universal precautions  |  |
|  |  |  |  |  | 10. Discuss basic nursing procedures that relate to sonography (e.g., urinal, bed pan, and intravenous) |  |
|  |  |  |  |  | 11. Assist with basic nursing procedures  |  |
|  |  |  |  |  | Other:  |  |

| 0 | 1 | 2 | 3 | 4 | G. Perform Sonography Procedures   | Notes: |
|---|---|---|---|---|--|--------|
|   |   |   |   |   | 1. Document client history and physical findings   |        |
|   |   |   |   |   | 2. Document client records accurately  |        |
|   |   |   |   |   | 3. Maintain accurate client records  |        |
|   |   |   |   |   | 4. Differentiate between normal and abnormal pathophysiology processes for general sonography  |        |
|   |   |   |   |   | 5. Differentiate between normal and abnormal pathophysiology processes for cardiac sonography  |        |
|   |   |   |   |   | 6. Differentiate between normal and abnormal pathophysiology processes for vascular sonography |        |
|   |   |   |   |   | 7. Perform general sonographic examinations (e.g., abdomen, OB/GYN, and superficial)           |        |
|   |   |   |   |   | 8. Perform cardiac sonographic examinations (e.g., adult and pediatric)                        |        |
|   |   |   |   |   | 9. Perform vascular sonographic examinations   |        |
|   |   |   |   |   | 10. Apply acoustical physics and Doppler principles  |        |
|   |   |   |   |   | 11. Demonstrate the proper use of instrumentation and mechanics (e.g., artifacts)              |        |
|   |   |   |   |   | 12. Demonstrate the proper care and maintenance of instrumentation and accessories             |        |
|   |   |   |   |   | 13. Discuss the principles of medical necessity that relate to the ultrasound procedure        |        |
|   |   |   |   |   | 14. Explain the credentialing process  |        |
|   |   |   |   |   | 15. Describe the importance of credentials   |        |
|   |   |   |   |   | 16. Identify the need and responsibility for continuing education                              |        |
|   |   |   |   |   | Other:   |        |

| 0 | 1 | 2 | 3 | 4 | H. Leadership Competencies**   | Notes: |
|---|---|---|---|---|--|--------|
|   |   |   |   |   | 1. Demonstrate an understanding of SkillsUSA-VICA, its structure, and activities |        |
|   |   |   |   |   | 2. Demonstrate an understanding of one's personal values                         |        |
|   |   |   |   |   | 3. Perform tasks related to effective personal management skills                 |        |

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|  |  |  |  |  | 4. Demonstrate interpersonal skills                                  |  |
|  |  |  |  |  | 5. Demonstrate etiquette and courtesy                                |  |
|  |  |  |  |  | 6. Demonstrate effectiveness in oral and written communication       |  |
|  |  |  |  |  | 7. Develop and maintain a code of professional ethics                |  |
|  |  |  |  |  | 8. Maintain a good professional appearance                           |  |
|  |  |  |  |  | 9. Perform basic tasks related to securing and terminating employees |  |
|  |  |  |  |  | 10. Perform basic parliamentary procedures in a group meeting        |  |
|  |  |  |  |  | Other:   |  |

**\*\*NOTE: These competencies are addressed in the Missouri SkillsUSA-VICA Curriculum Guide lessons**