

Radiography Educational Program Director Survey Results & Analysis

N=441

Background Information

1. What is your position in the program?

98% Program Director	2% Other Educational Faculty <i>Clinical Coordinator, Instructor</i>
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2. How many students are in your senior class?

2% 1-5	19% 6-10	30% 11-15	21% 16-20	28% 21 or more
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3. Is your program a certificate-based program or a degree-granting program?

15% Certificate-Based	85% Degree-Granting
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4. Is your program sponsored by a healthcare institution or an educational institution?

16% Healthcare	84% Educational	<1% Other
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5. How many clinical sites does your program have?

2% 1	15% 2-5	27% 6-9	56% 10 or more
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6. How many clinical sites are currently allowing students to complete clinical procedures at their site?

74% 0	7% 1	15% 2-5	3% 6-9	1% 10 or more
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7. If none of your clinical sites are currently allowing students to complete competencies on site, indicate the date that they have set for students to be able to return.

72% have not set a date	15% within the next month	7% 2-3 months	1% 4 months or more
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Of the 70 responses with a specific date, 32% indicate by the end of May, 25% by June 1, 8% by June 15, 15% in July and 20% by the Fall. In certain cases, it is the education institution that is not allowing students in the clinical site.

Educational Program Completion

8. When is/was your senior class scheduled to graduate?

19% has already graduated	42% within the next month	23% 2-3 months	5% 4-6 months	7% ≥ 7 months
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9. Not considering any requirements that are specific to ARRT's Didactic and Clinical Competency Requirements, what percentage of your senior students are expected to complete all the institution's other graduation requirements by the anticipated graduation date noted above?

5% 0	2% 1-20%	1% 21-40%	<1% 41-60%	3% 61-80%	7% 81-99%	82% 100%
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Most respondents are more worried about their upcoming cohorts of students than the cohort that is nearest to graduation.

ARRT Didactic Competency Requirements

10. What percentage of your senior students are expected to have completed ARRT Didactic Competency Requirements by the anticipated graduation date noted above (see explanation of ARRT Didactic Competency Requirements attached)?

2% 0%	1% 1-20%	1% 21-60%	1% 61-80%	3% 81-99%	92% 100%
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11. If any students are not expected to complete the ARRT didactic competency requirements by the graduation date, what requirements will they be lacking?

94% Will complete all ARRT requirements	6% Will not complete all requirements
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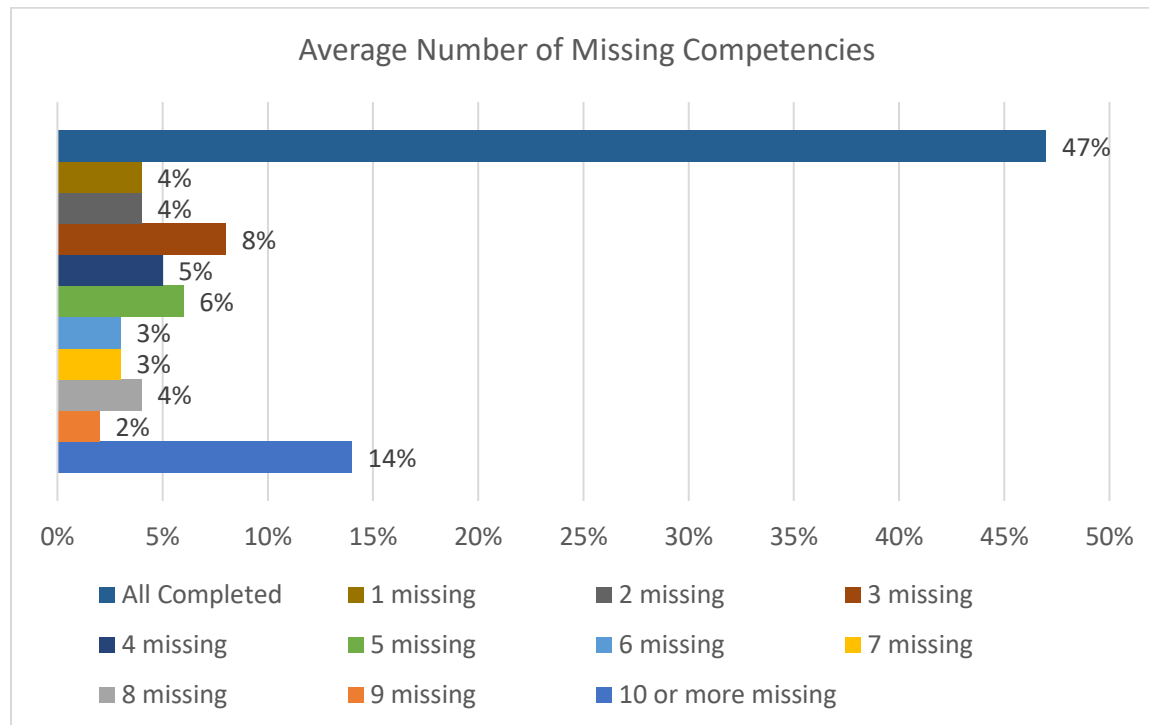
For both questions 10 and 11, respondents indicate that a student's graduation requirement is jeopardized more by institutional or accreditor requirements than by ARRT requirements. The requirement most often mentioned was clinical hours.

ARRT Clinical Competency Requirements

12. What percentage of your senior students are expected to have completed ARRT clinical competency requirements by the anticipated graduation date noted above?

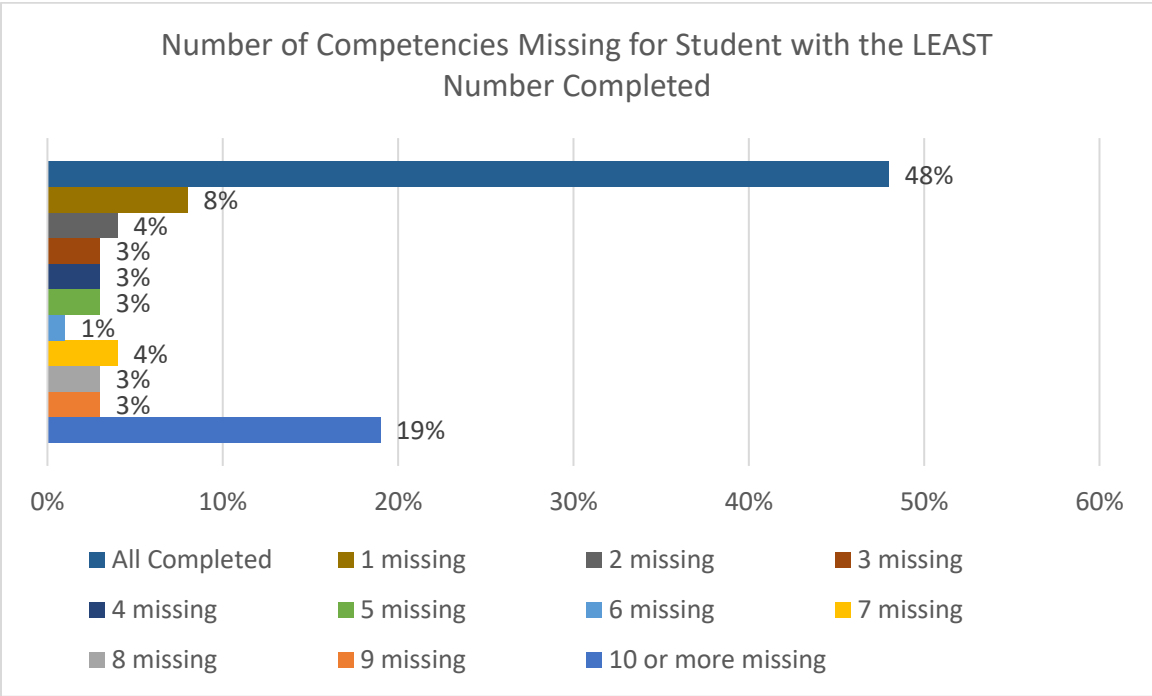
12% 0%	5% 1-20%	3% 21-40%	5% 41-60%	6% 61-80%	15% 81-99%	54% 100%
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13. If any students are not expected to have completed the ARRT's 10 general care procedures, 37 mandatory procedures, and 15 elective procedures in the Clinical Competency Requirements, what is the average missing number considering the entire group of students?

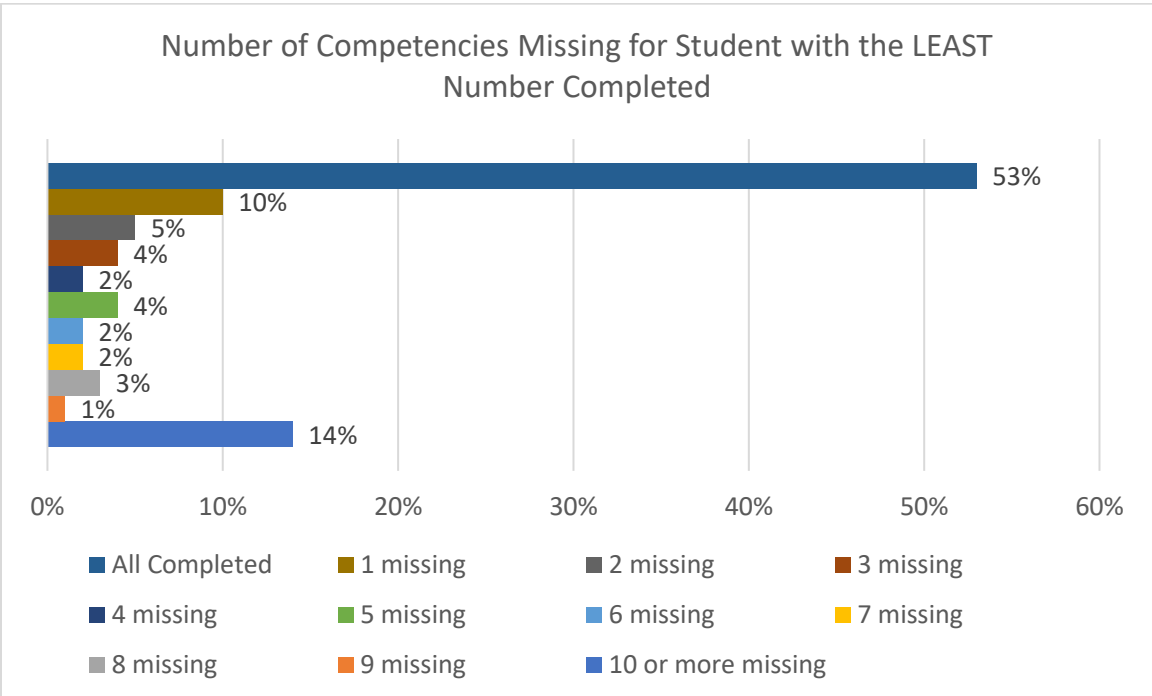


The current Radiography Didactic and Clinical Competency Requirements allow for simulation of 23 procedures. Eight simulations are allowed on mandatory examinations and 15 simulations are allowed in the elective category. Currently, there are 52 required procedures, thus simulation is allowed for 44% of the total procedures, a number considerably higher than the 20% limit recently recommended by the ARRT Board of Trustees.

14. What is the number of competencies missing for the student with the **least** number completed (i.e., the number of competencies that still need to be completed)?



15. What is the number of competencies missing for the student with the **greatest** number completed (i.e., the number of competencies that still need to be completed)?



16. If any students are not expected to have completed all the Clinical Competency Requirements, are there procedures in common across students that they will be lacking or do the ones missing vary widely across individuals?

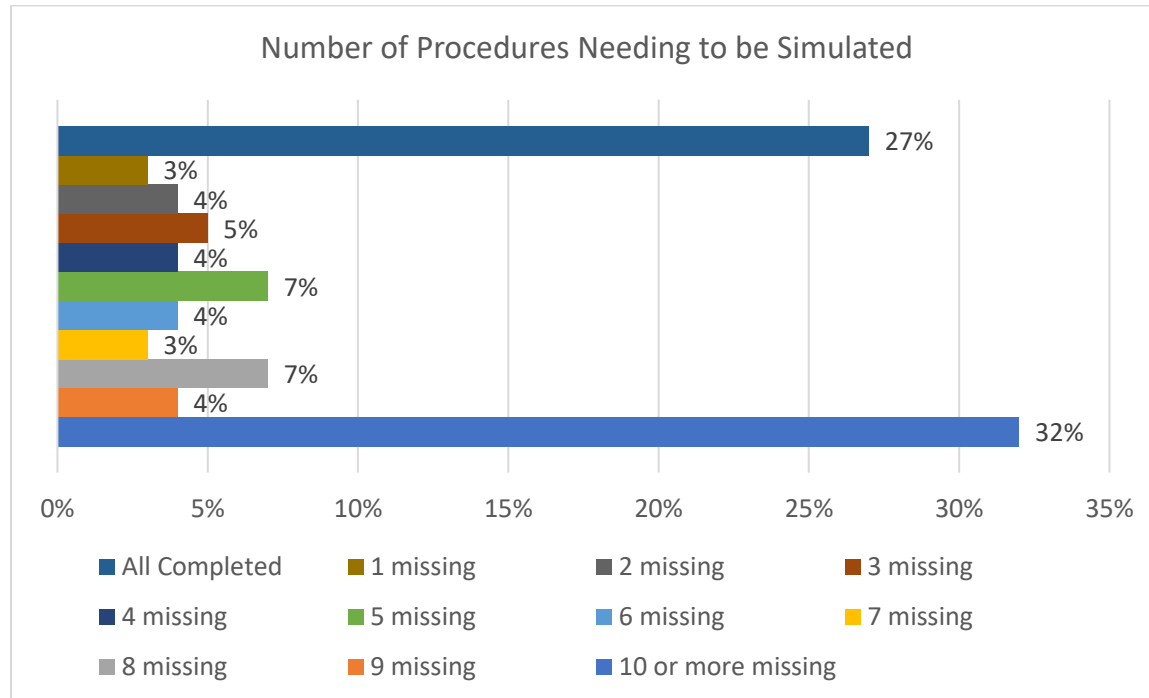
49% Competencies have been/will be completed	13% Missing competencies	37% Varies
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Specific procedures mentioned were: (percentages in blue indicate results from 2019 practice analysis survey)

- *Fluoroscopy – 48 (Elective but two must be documented with one of the two being a barium enema (53%) or upper GI procedure (58%))*
- *Cross-table laterals – 38 (Includes spine and hip-mandatory)*
- *Trauma extremities – 32 (Includes upper and lower-mandatory)*
- *C-arm – 25 (mandatory (63%))*
- *Head work – 22 (elective but one is required (88%))*
- *Geriatric – 15 (3 of 3 are required)*
- *Pediatric – 14 (1 of 5 is required)*
- *Mobile Radiography – 11 (3 of 3 are required (65%))*
- *Venipuncture – 8 (32%)*
- *Other mandatory procedures – 27*
- *Other elective procedures – 26*
- *Other general care procedures – 2*
- *Non-ARRT procedures – 1 (Head CT (22%))*

Many respondents are concerned with the amount and the breadth of studies available for their students during the pandemic.

17. What is the total number of procedures that would need to be simulated for your students to meet the requirements?



The current Radiography Didactic and Clinical Competency Requirements allow for simulation of 23 procedures. Eight simulations are allowed on mandatory examinations and 15 simulations are allowed in the elective category.

18. What environment does your program have for simulation of the procedures?

20% Clinical Lab	68% On Campus Lab	<1% On Campus Virtual Lab	2% Clinical Virtual Lab	9% Other
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Those responding 'Other' indicated remote methods such as simulation software, simulation videos, on-line simulation, discussion, and additional testing.

19. Which of these environments do your students have access to at this time?

12% Clinical Lab	30% On Campus Lab	2% On Campus Virtual Lab	8% Clinical Virtual Lab	40% Other
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Nearly all those responding 'Other' did not have access to the four other options. Their access could be limited due to state regulations, clinical site restrictions, or campus rules not permitting interactions with students.

20. Can program officials be available for students to simulate the procedures?

10% No	89% Yes
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While available, many pointed out that their access was limited by state regulations or campus rules not permitting interactions with students.

21. Are there restrictions that your program has that limit the ability for students to simulate the procedures?

47% No	53% Yes
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Access is the primary restriction. Not all sites have the appropriate access for C-arm, fluoroscopy, or portable competencies.

22. If ARRT were to increase the number of procedures that could be simulated but maintain the current criteria for how the simulations must be performed, would it be possible for those students who have not demonstrated all clinical competencies to complete them?

28% No	68% Yes
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Many respondents indicated that the issue for them is access for simulation and not the number of procedures. There is also confusion within the comments to the total number of simulations that the ARRT allows, as many think the total number is eight and not 23. There is also concern for simulation of fluoroscopy and C-arm procedures when there is no access to that particular equipment.

23. If ARRT allowed remote proctoring of simulations, please describe the setup your students would be using (e.g., actual x-ray equipment, flashlight for collimated field).

66% Will NOT use remote proctoring of simulations	29% Will use remote proctoring of simulations
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Respondents noted a wide variety of ways to accomplish simulations remotely. The most common method was capturing video with the student using a flashlight and doll (64), and virtual simulation with additional testing (17). Fourteen respondents stated that remote simulations compromise the integrity of the profession and five respondents indicated they would want additional guidelines from the ARRT before they would consider using remote simulation.

24. If your program cannot meet ARRT's current criteria for simulations, how would the criteria need to be modified for your students to be able to demonstrate the competencies?

63% Do NOT need modifications	34% Need modifications
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Most respondents are more worried about their upcoming cohorts of students than the cohort that is nearest to graduation. There is also concern for simulation of fluoroscopy and C-arm procedures when there is no access to that equipment.

25. If ARRT were to maintain the current number of procedures that can be simulated but modified the current criteria for simulating procedures consistent with your answer above, would it be possible for your students who still need to complete some clinical competencies to demonstrate them?

23% No	72% Yes
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Respondents again stressed that access is the real problem and that their concern is more for future cohorts in their program versus those that are nearest to graduating.

26. Does your program admit only students who already have an associate degree or higher?

23% No degree needed	7% Yes, need an associate degree or higher
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27. Does your program award a degree?

13% No	76% Associate Degree	9% Baccalaureate Degree	2% Other
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28. If your program does award a degree, will the students completing the program's professional component be able to complete the degree requirement by the anticipated graduation date noted above?

20% No	78% Yes
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29. Does your program require that students meet a specified number of clinical hours* in addition to completing ARRT Didactic and Clinical Competency Requirements—Radiography? *clinical hour requirements are determined by each program and programmatic accreditors

42% No	58% Yes
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30. If your program requires that students meet a specified number of clinical hours, how will meeting the required number of hours continue to be a challenge even after students have completed ARRT Didactic and Clinical Competency Requirements—Radiography?

63% Students have met the required hours or does not apply	35% Yes, meeting the required clinical hours is a challenge
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31. Are there any other impediments to meeting ARRT's eligibility requirements that have not been addressed in the questions above?

86% No	14% Yes
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The main impediment not previously mentioned was the paper application process.

32. If ARRT modified how the requirements are satisfied, how would you want to apply these changes?

56% Modified requirements should only be for students near graduation	43% Modified requirements should apply to all current students
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This result is consistent with program directors concern for future cohorts.