



# DIVISION SCOPE OF SERVICE

<b>Division: WEST FLORIDA</b>
<b>Classification: DOSIMETRIST</b>
<b>Applicant Name:</b>

<p><b>Dosimetrist:</b> The Dosimetrist must have equivalent qualifications, competence and function in the same role as employed individuals performing the same or similar services at the facility, as defined by facility job description.</p>
<p><b>Definition of Care or Service:</b> The Dosimetrist Performs those functions necessary for the support, treatment, measurement or supplementation of the Radiation Oncologist and/or Medical/Therapeutic Physicist. The Dosimetrist is a member of the radiation oncology team who has knowledge of the overall characteristics and clinical relevance of radiation oncology in the management of cancer or other disease processes, with special expertise in radiation therapy treatment planning. Scope of service may include:</p> <ul style="list-style-type: none"> <li>• Performs and or manages the following safely and efficiently:</li> <li>• Design a treatment plan by means of computer and/or manual computation with optimal beam geometry to deliver a prescribed radiation dose and spare critical structures in accordance with the Radiation Oncologist's prescription.</li> <li>• Identify and contour normal and dose-limiting structures by utilizing images from one or more data sets. Assumes proficiency in image registration with various image data sets to include CT, MRI and PET.</li> <li>• Create and transfer reference images and localization markers for portal verification and treatment delivery to include DRRs, CBCTs and other IGRT methods, as specified.</li> <li>• Supervise, perform, or assist in simulations and tumor localization using specified imaging devices including, but not limited to CT, MRI, and PET.</li> <li>• Supervise, perform, or assist in the planning and implementation of the fabrication of compensation filters, custom shields, wedges, and other beam modifying devices.</li> <li>• Supervise, perform, or assist in the planning and implementation of the production of moulds, casts, and other immobilization devices.</li> <li>• Communicate with the radiation therapist(s) and assume an advisory role in the implementation of the treatment plan including: the correct use of immobilization devices, compensators, wedges, field arrangement, and other treatment or imaging parameters.</li> <li>• Perform calculations for the accurate delivery of the prescribed dose, document all pertinent information in the patient record, and verify the mathematical accuracy of all calculations by an approved method.</li> <li>• Provide assistance and technical support to the Medical Physicist, in radiation safety and protection, qualitative machine calibrations, quality assurance of treatment plans and radiation oncology equipment.</li> <li>• Operates and performs quality assurance, under the direction of the Medical Physicist, on the treatment planning computer(s).</li> <li>• Supervise, perform, or assist in the application of specific methods of patient and/or beam dosimetry as directed by the Medical Physicist.</li> <li>• Where applicable assist in brachytherapy procedures by performing treatment planning and dose calculations.</li> </ul>



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- Utilize radiation monitoring devices to measure radioactivity and perform assays.
- Demonstrates Clinical and Service excellence behaviors to include code of HCA Healthcare conduct core fundamentals in daily interactions with patients, families, co-workers and physicians.

**Setting(s):** Hospitals: Imaging, Nuclear Medicine and Radiation Therapy

**Supervision:**

- Supervision by Radiation Oncologist and/or Medical/Therapeutic Physicist
- Supervision is defined by any limitations in practice that may be addressed by state law

**Evaluator:** Department director or designee in conjunction with supervising Radiation Oncologist and/or Medical/Therapeutic Physicist

**Tier Level:** 2

**eSAF Access Required:** YES

**Qualifications:**

- Bachelor’s degree or higher in a related science
- Medical Dosimetrist Certification or certification eligibility with successful completion within 2 years

**Preferred Qualifications:**

- Graduate of Medical Dosimetry JRCERT accredited program of at least 12 months preferred
- Certified by the Medical Dosimetrist Certification Board (MDCB) preferred

**NOTE:** Where education may not be defined in qualifications area of the Scope, HCA Healthcare requires the highest level of education completed (not training or courses) confirmed on your background check.

**State Requirements:**

- N/A

**Experience:**

- Completed at least 24 months (or 35 hours per week full time equivalent of a minimum of 3,640 hours) clinical medical dosimetry experience under the direction of a certified medical dosimetrist or medical physicist.

**Competencies:**

The Dosimetrist will demonstrate:

- Safe and effective operation of equipment
  - Maintains equipment in good working order
  - Demonstrates effective infection control practices related to equipment operation
- Accurate patient information review and evaluation
  - Uses at least two ways to identify patients before treating or performing a procedure
  - Verifies that the requested procedure correlates with the patient’s clinical history, presentation and physician order
  - Accesses the patient medical record appropriately
  - Documents in the medical record according to the facility standard / policy
- Maintains a safe environment
- Maintains sterile field
- Correctly designs patient specific effective treatment plans by means of computer and/or manual computation with optimal beam geometry to deliver a prescribed radiation dose and spare critical structures in accordance with the Radiation Oncologist's prescription.
- Appropriately creates and transfers reference images and localization markers for portal verification and treatment delivery to include DRRs, CBCTs and other IGRT methods, as specified.
- Demonstrates good communication and interpersonal skills by appropriately facilitating the exchange



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of information with patients, family members, the radiation oncology treatment team as well as outside entities.

- Interprets criteria and develop treatment plans as defined by relevant treatment protocols, utilizing radiation safety principles and practices as well as current rules and regulations of the Nuclear Regulatory Commission and other regulatory agencies.
- Infection Prevention
  - Practices consistent hand hygiene
  - Uses personal protective equipment (PPE) when required
  - Required immunizations per Division requirements
  - Complies with Isolation precautions
  - Maintains sterile field

**References:**

- Florida, H. N. (n.d.). *Taleo*. Retrieved June 6, 2012, from HCA Careers: <https://hca.taleo.net/careersection/0internal/jobdetail.ftl>

**Document Control:**

- Content updates 10/10/2016
- Cosmetic updates 8/13/2020

**Your signature confirms you will be able to comply with the Qualifications and Competencies listed within this Scope of Service and that you will confirm education via your background check.**

**Applicant Printed Name:** \_\_\_\_\_

**Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_