

Diagnostic Medical Physics (DMP) Oral Exam Content

The oral exam cases have been recategorized for April 2023 and future administrations to be more uniform and consistent across the modalities as shown below. However, exam content has not changed from previous years. Please note that professionalism and ethics is included under category 5. Conditioned candidates will continue to be examined in the categories they failed, and the restructuring will not affect them.

1. Radiography & mammography (includes dental and DEXA)

- X-ray production, imaging chain, imaging protocols
- Image processing, artifacts, image quality evaluation & optimization
- Dose-related metrics; typical/reference dose levels; image transfer, storage, and display
- Equipment testing, accreditation standards, technologist QC
- Radiation protection, shielding and siting, regulations, radiation biology

2. Fluoroscopy and interventional imaging

- X-ray production, imaging chain, imaging protocols
- Image processing, artifacts, image quality evaluation & optimization
- Dose-related metrics; typical/reference dose levels; image transfer, storage, and display
- Equipment testing, accreditation standards, technologist QC
- Radiation protection, shielding and siting, regulations, radiation biology

3. Computed tomography

- X-ray production, imaging chain, imaging protocols
- Image processing, artifacts, image quality evaluation & optimization
- Dose-related metrics; typical/reference dose levels; image transfer, storage, and display
- Equipment testing, accreditation standards, technologist QC
- Radiation protection, shielding and siting, regulations, radiation biology

4. MRI

- MR design, imaging chain, imaging techniques
- Image processing, artifacts, image quality evaluation & optimization
- Patient MR bioeffects; image transfer, storage, and display
- Equipment testing, accreditation standards, technologist QC
- MR safety, shielding, siting, and regulations

5. Ultrasound, professionalism, and ethics

- Ultrasound design, imaging chain, imaging protocols
- Image processing, artifacts, image quality evaluation & optimization
- Ultrasound bioeffects; ultrasound intensity measures and safety; image transfer, storage, and display
- Equipment testing, accreditation standards, technologist QC
- [Professionalism and Ethics](#)