

Course Description

This three-day post-processing course teaches the fundamentals of Vital Images' advanced visualization software. Participants receive training on a variety of applications and disciplines within the software.

Each student will utilize their own workstation in a classroom setting with lecture, exam assessments and hands-on training. The course will consist of education covering 2-D imaging including multi-planar reformatting (MPR) and maximum intensity projection (MIP). 3D volumetric studies including cardiac, multi-phase imaging, lung analysis, vessel analysis, brain perfusion, virtual colonoscopy and endovascular stent planning will be reviewed. The student will perform exam specific assessment reviews and have relevant case studies to work with.

Intended Audience

This course is open to all Radiologic Technologists, Radiologists, Cardiologists and Physicians working in a CT or MR discipline. It is ideal for new and experienced users.

Goals and Objectives

After completing this course, the participant should be able to:

1. Describe volumetric imaging concepts.
2. Perform orthopedic imaging workflows.
3. Identify and interrogate cardiac, peripheral, and other vascular anatomy.
4. Describe multi-planar reformatting techniques.
5. Discuss basic patient prep for CTA exams.
6. Demonstrate workflow for volumetric imaging and reporting.
7. Demonstrate proficiency of CTA concepts.
8. Discuss image reporting and distribution techniques.
9. Demonstrate patient confidentiality techniques including HIPAA compliance.
10. Perform neurological post processing techniques such as brain perfusion.

Accreditation

The American Society of Radiologic Technologists (ASRT) has approved this 3-day course for 11.0 CE Credits

Faculty

The course is taught by Vital U instructors who are registered radiologic technologists.

Schedule

Day 1

8:30am	Welcome and Overview
8:45am	Introduction Module, Part One (8:45am - 9:45am Lecture) <ul style="list-style-type: none">• Methods of Education with VitalU (How to access distance learning tools)• Accessing Vitrea• Choosing a Study and Series• Choosing Protocol and Preset• MPR Imaging Basics
10:15am	Break
10:30am	Introduction Module, Part Two (10:30am - 11:00am Lecture) <ul style="list-style-type: none">• 3D Imaging Basics

- Anatomy Segmentation
- Distribution of Reports
- Study Viewer – Not covered
- VI Communicator – Not covered

11:00am **Ortho** (11:00 – 11:45 Lecture)

12:00pm **Lunch Break**

12:45pm **Aorta** (12:45 – 1:30pm Lecture)

1:45 pm **Break**

2:00 pm **AAA** (2:00pm – 2:45pm Lecture)

3:00 pm **Peripheral** (3:00 – 3:45 Lecture)

4:00pm **Discuss/Adjourn**

Day 2

8:30 am **Review Day 1**

8:45 am **Carotid** (8:45am-9:15am Lecture)

9:30 am **Break**

9:45 am **General MRA** (9:45am-10:15am Lecture)

10:30am **Break**

10:45am **Coronary Artery Calcium Scoring** (10:45am – 11:15am Lecture)

11:30am **Coronary CT Angiography** (11:30am-12:00pm Lecture)

12:00pm **Lunch Break**

12:45pm **Coronary CT Angiography** (12:45pm-1:30pm Lecture)

1:45pm **Break**

2:00pm **EP Planning** (2:00pm-2:30pm Lecture)

2:45pm **Break**

3:00pm **Cardiac Functional Analysis** (3:00pm – 3:45pm Lecture)

4:00pm **Adjourn**

Day 3

8:30am **Assessment Review Day 2**

9:00am **Virtual Colonography** (9:00am – 9:45am Lecture)

9:00am **Circle of Willis** (9:45 – 10:30 Lecture)

10:30am **Break**

10:45am **Brain Perfusion/Brain Analysis** (10:45am-11:30am Lecture)

11:30am **Lunch Break**

12:15pm **Lung/Pulmonary** (12:15pm-1:00pm Lecture)

1:15pm **Break**

1:30pm **MR Tumor** (1:30pm-2:15pm Lecture)

2:30pm **Review and Questions**

3:00pm **Adjourn**