

Servicing Contrast Injector Systems

Medrad, ACIST, & Guerbet (Pick 4 or pick 2)



RADIOLOGICAL SERVICE TRAINING INSTITUTE

Introduction

Servicing Contrast Injector Systems is a hands-on, skills development program that teaches the service professional the skills necessary to understand injector systems that are peripheral to many medical imaging modalities. The course contains lecture on injectors principles, lecture and demonstration on specific injector products, and hands-on training. Upon completion of the course, the student will be able to perform diagnose, repair, and perform preventative maintenance on contrast injectors.

Prerequisites

To attend this course, the service professional must have a background in biomed or imaging.

Models Covered

- **Medrad**
 - Stellant
 - Stellant w/Certegra Workstation
 - Spectris Solaris/EP
 - MRExperion
 - Mark V Provis
 - Mark VII Arterion
- **ACIST**
 - CTA
 - CVI
- **Guerbet**
 - Optivantage
 - Optistar
 - Angiomat
 - CT9000

Course Length

- Pick 4 Systems: 5 Days
- Pick 2 Systems: 3 Days

Objectives

At the conclusion of this course, participants will be able to:

- Have a thorough understanding injector function
- Perform injector troubleshooting
- Perform Injector repairs
- Perform injector preventative maintenance

Course Outline

Day 1

- Introduction to contrast injectors
 - Contrast Injector theory
 - What is pressure?
 - Basic operational concepts of all injector systems
 - Troubleshooting overview
 - PM overview
- Lab Activities
 - Group hands-on injector PM
 - Injector system #1 PM

Day 2

- Injector system #2 PM
- Injector system #3 PM

Day 3

- Injector system #4 PM
- Troubleshooting & repairing contrast injectors
 - Power supplies
 - Head cable
 - Connections
 - Sensors
 - Common fail items (commonly replaced parts)
- Lab Activities
 - Troubleshooting

Day 4

- Troubleshooting & repairing contrast injectors
- Lab Activities

Day 5

- System review
- Final exam
- Course evaluation