

2020



# ASMIRT

## Policies and Procedures

### **IV Cannulation and Radiographic Contrast Media**

*Your profession. Your future.*



There are a number of protected titles for medical radiation practice. They include:

Medical Radiation Practitioner (MRP)

Diagnostic Radiographer (DR)

Medical Imaging Technologist (MIT)

Radiographer

Nuclear Medicine Scientist (NMS)

Nuclear Medicine Technologist (NMT)

Radiation Therapist (RT).

For the purposes of our documentation we use the broad descriptor Medical Radiation Practitioner (MRP) recognising that it covers a range of areas of practice.



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# IV CANNULATION AND RADIOGRAPHIC CONTRAST MEDIA

## Introduction

This ASMIRT programme aims to recognise the additional skills, training and experience that medical radiation practitioners possess to perform IV cannulation and radiographic contrast media examinations.

The programme has been designed to increase the knowledge and competence of the medical radiation practitioner including basic knowledge for handling adverse incidents during the examination.

## Programme Objectives

- o To understand the basic anatomy of the veins and arms of the arm
- o To understand the various contrast media and understand the differences of the types of contrast media available and in use in medical imaging departments
- o To be aware of the various risks that are involved in administration of various contrast media
- o To understand the pharmacology of contrast media and how this has an impact on the side effects of the injection or administration.
- o To understand the mechanics of cannulation, anatomy and selection of devices
- o To understand the legislative requirements for contrast media injection.

At the completion of this training program the participant will be able to:

- Have a greater awareness of the various products available in our medical imaging
- Select and prepare an appropriate vein for cannulation
- Insert a cannula safely and with confidence
- Have knowledge and understanding of patient co morbidities for the safe administration of contrast media
- Explain to the patient what to expect with the procedure, and the side effects
- Describe the risks associated with this procedure and the management of them
- Detail the departmental requirements for IV cannulation
- Demonstrate safe practice using correct PPE and equipment
- Perform the cannulation while maintaining safe infection control





## Certification

The certification process consists of 3 components.

- A. Theoretical
- B. Practical
- C. Logbook

Candidates must complete all three components and any additional pre-requisites and prescribed tasks, to be eligible to receive a Certificate in IV Cannulation and radiographic contrast media

### Section A – Theoretical Component

Prior to commencing the theoretical component, candidates must submit evidence of having undertaken current Australian Hand Hygiene and Basic Life Support.

The theoretical component consists of pre-recorded content that goes through the principles of IV cannulation, contrast media types, pharmacology, safety risks and side effects, choice and adaptation of contrast media for CT/MRI/US, contrast media storage, first responder knowledge and consent.

There are also two required pre-reading documents that will supplement the pre-recorded content.

On completion of the pre-reading documents and the pre-recorded content, candidates will be required to complete an assessment quiz and achieve a pass mark of 100%. On successful completion of the theoretical component, candidates will be able to register for the practical component. Cannulation packs will be sent out on registration.

### Section B – Practical Component

The practical component requires the candidate to demonstrate a cannulation online for instructor feedback.

Instructor led component may include all or part involvement in the following:

- Patient and/or room setup
- Opening of sterile equipment and/or consumables
- Arm/hand positioning
- Setting injection parameters
- Safety principles
- Troubleshooting





## Section C – Logbook Component

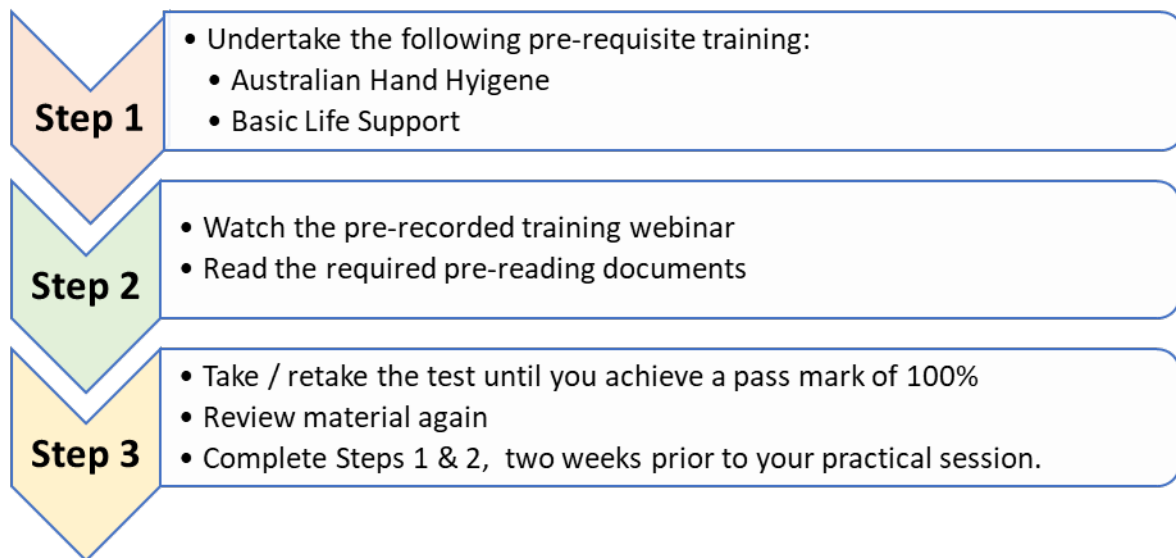
This component requires the candidate to undertake 10 cannulations in their respective workplaces within a three-month period of completing the practical training component. These cannulations will be recorded on a supervised practice logbook, signed by the respective supervisor/s prior to submission.

### Obtaining certification

An application can be made to obtain full certification on completion of the workplace supervised cannulations. Evidence of verification of completion is to be provided when applying for this certification i.e. signed logbook submission.

### Certification procedure

## SECTION A





## SECTION B

- Step 4**
  - Register for your online practical session
  - Upload your Certificates of Completion for the Australian Hand Hygiene and Basic Life Support training
- Step 5**
  - Check the contents of the pack you have been sent
  - Familiarise your self with the contents of the pack
- Step 6**
  - Complete the online practical session
  - Certificate of attendance/participation issued on completion

## SECTION C

- Step 7**
  - Completion of a minimum of 10 successful workplace supervised cannulations in three months from completion of online practical session
- Step 8**
  - Sign off by a supervisor of the Peripheral venous access device skills assessment checklist
  - Supervisors written verification of minimum of 10 successful supervised cannulations
- Step 9**
  - Submit signed documentation with payment
  - Certificate in IV cannulation and media contrast issued with a one year expiration







## FAQ's

### **What if I am unable to undertake the practical component?**

It is recommended that you enrol in a practical component as soon as you are able. This will ensure that you consolidate your theoretical knowledge.

### **How often are these practical sessions run?**

Sessions are run as per detailed on the ASMIRT website.

### **Why do I need to obtain 100% in the test?**

It is a requirement that you achieve 100% in the test to ensure that you have read and completely understood the material that you have been provided.

### **What if I am unable to obtain the 10 supervised cannulations in the 3-month period?**

A 3-month timeframe has been suggested, to ensure that you are able to continue to improve on what you have practiced and learnt. We appreciate that if the cannulation workload is not high, then this may not be possible. The recommendation is to achieve the 10 supervised cannulations as soon as possible.

### **Does each cannulation need to be signed off by a supervisor?**

Yes, each cannulation you undertake will need to be verified by a supervisor, as these should be reviewed as you undertake them.

### **If I am a sole practitioner, who can sign off my logbook?**

A radiologist should be present when you are cannulating, so they can then inject the contrast. The radiologist or nurse can sign off on your logbook.

