

## ADVANCED PHLEBOTOMY AND CANNULATION (GPT004C)

A hybrid modular course awarding an OCN Accredited Level Three Certificate (3 credits)  
Parts 1 (A & B) - online (eLearning) : Part 2 - Cannulation in the Classroom (one day)

### PART 1A (ONLINE) - ADVANCED PHLEBOTOMY

#### M01 - Introduction:

Learning outcomes, Assumptions and Overview.

#### M02 - Basic Phlebotomy - revision:

Recap of basic phlebotomy theory and practice - precursor to the advanced course.

#### M03 - Specialised Advanced Phlebotomy Equipment:

Equipment and practices in unusual situations.

Patients with special needs and requiring specific attention.

Equipment preparation for blood samples that are collected at 0 degrees, 37 degrees C and other non-standard conditions.

A look at advances in technology and how to use the latest devices.

#### M04 - Point of Care Testing:

What is POC Testing? Advantages, Disadvantages and Clinical Outcomes. Comparison of POC with lab testing. 10 common POC tests. Roles for phlebotomists performing POC Tests.

#### M05 - Neonates and Children:

Sample collection from new-born to pre-adult. A detailed overview of legal principles of law including child consent and child protection for phlebotomists. Neonatal and child blood collection equipment. A comprehensive look at heel and finger-prick procedures.

#### M06 - Geriatric Patients:

The challenges of phlebotomy in older people. Understanding skin changes and venepuncture implications. A profile of common geriatric blood tests. Age related problems. Procedural precautions.

#### M07 - Special Procedures:

Special procedures relating to patient handling and sample handling. Drug trials and research projects.

#### M08 - Special Tests and Sample Handling:

A look at sample collection at specific times of day and night, samples that are protected from light, collected on ice and collected at body temperature. Procedures for each group.

#### M09 - Associated (Advanced) Phlebotomy Tasks:

A detailed look at advanced roles within a clinical environment including group leadership, data management, QA procedures and training.

#### M10 - Alternative Environments:

A step-by-step look at non-clinical phlebotomy environments.

### PART 1B (ONLINE) - CANNULATION

#### M11 - Peripheral IV Cannulation - Introduction:

Definitions - understanding terminology relating to PIVC. IV Therapy and NMC guidelines.

#### M12 - Legal & Professional Responsibilities:

Legal Obligations and Accountability. Criminal, Civil and Contractual law in Healthcare. Vicarious Liability and your Duty of Care.

#### M13 - Anatomy & Physiology:

Sites appropriate to IV cannulation. Hand vs. arm. Advantages and disadvantages of relevant veins. An overview of Homeostasis and Fluid Balance.

#### M14 - Hygiene and Infection Prevention & Control (IPC):

Reducing healthcare-associated infections. Keeping Safe. Bloodborne Pathogens and Work Practice Controls. Standard Precautions. Waste Disposal. Needle-stick injuries.

#### M15 - Indications and Advantages:

When to cannulate, infusion types and benefits over alternative infusion routes. Continuous and intermittent infusion. Prophylactic use before procedures and in unstable patients. Contraindications.

#### M16 - Equipment:

Cannula types, sizes and colour coding. How to select appropriate size. Equipment overview for total procedure.

#### M17 - Vein choice for cannulation:

Correct vein selection. Which veins to avoid. How to manage an unsuccessful cannulation.

#### M18 - Procedures:

Full procedure for cannulation including correct documentation.

#### M18: Guide to cannulation - revision

#### M18: Video - Recap with full procedure

#### M19 - Contraindications:

When inappropriate to cannulate including patients with specific health conditions.

#### M20 - Complications:

A detailed look at potential complications during and after cannulation, including phlebitis, infections, petechiae and haematomas. Clinical signs and corrective actions.

### PART 2 (CLASSROOM) - CANNULATION

**PLEASE NOTE THAT PARTS 1A & 1B MUST BE COMPLETED BEFORE ATTENDING PART 2**

#### 1 - Welcome, introductions and overview:

Objectives and learning outcomes

#### 2 - Legal & Professional Responsibilities:

Overview and discussion.

#### 3 - Anatomy - key points (appropriate to PIVC):

Arteries and veins. Selecting an appropriate site. Sites to avoid and "first choice" sites.

#### 4 - Cannulae - selection and types:

A detailed look at different types of cannulas, respective benefits and attributes. Selecting an appropriate pVAD.

#### 5 - Complications:

Complications of pVAD insertion including examples of infiltration, haematoma, extravasation and transfixation.

#### 6 - VIP Score:

Understanding and using the Visual Infusion Phlebitis score.

#### 7 - Equipment - overview:

We take a look at all essential equipment required for PIVC.

#### 8 - PRACTICAL SESSIONS:

Multiple practical sessions throughout the day.

#### 9 - Fluids:

The importance of understanding fluids. Includes detailed overview of: maintenance fluids, Hartmann's solution, Colloids (and risks), blood products.

#### 10 - Infusion Rates:

Calculating infusion rates and drops per minute.

### HOME STUDY PACK

A home study pack (HSP) is provided to you and is an integral part of your total learning programme for this course.

Your HSP should be completed before starting the online course and is designed to provide you with a basic knowledge of several fundamental subject areas.

Completion of the total programme will enable you to reach your target "learning time" to achieve an award of 3 credits.