

## Online Modules

### Module 1 Focus: Legal Issues

- Regulatory Agencies and Governing Bodies
- Components of a Complete Physicians Order
- Legal Terms and Applications in Nursing
- Protective Measures for Guarding against Malpractice Lawsuits

### Module 2 Focus: Anatomy and Physiology

- The Vascular System: Veins, Arteries and Bone Marrow
- The Three Layers of the Vessels and Their Function
- Differentiating Arteries from Veins
- Veins used in Peripheral Intravenous Therapy
- Nerves—Avoiding Damage
- Skin-- Anatomy and Physiology

### Module 3 Focus: Psychological Needs of the IV Patient

- Elderly Patient Needs
- Cultural Aspects
- Patients with Sensory Deficits
- Methods of Reducing Patient Anxiety
- Patient Teaching/Education

### Module 4 Focus: Fluid and Electrolyte Balance

- Water: The Primary Fluid of the Body
- Hypovolemia—Dehydration: Assessment, Causes, Treatments
- Hypervolemia—Fluid Overload: Assessment, Causes, Treatments
- Fluid Compartments
- Electrolyte Imbalances: Assessment, Causes, Treatments

### Module 5 Focus: pH, Osmolality and Incompatibilities of Solutions and Medications

- pH of Intravenous Solutions and Medications
- Tonicity: Isotonic solutions, Hypotonic solutions and Hypertonic Solutions
- Incompatibilities
- Flushing Protocols

### Module 6 Focus: Fluid Regulation

- Methods of Fluid Regulation
- Patient Considerations in Fluid Regulation
- External Factors that Affect the Rate of Flow
- Calculation of IV flow rates

### Module 7 Focus: Infection Control and Safety Specific to I.V. Therapy

- Infection Control
- Site Preparation
- Administration Set Changes
- Dressing Changes

### Module 8 Focus: Site Selection and Device Placement

- Criteria for Site and Device Selection
- 3 Types of Peripheral Access
- General Considerations of Short Peripheral Access
- Veins to Avoid
- Special Considerations of the Older Adult

### Module 9 Focus: Complications

- Local Complications
- Systemic Complications

### Module 10 Focus: Step by Step Guide to I.V Set Up, Short Peripheral Insertion and Removal of Device

- Pre-insertion Procedures
- Equipment Determination
- IV Bag and Administration Set Preparation
- Insertion Procedure—One Handed Technique
- Therapy Discontinuation

### Module 11 Focus: Assessment and Documentation

- Catheter Insertion Documentation
- Catheter Removal Documentation
- Assessment, Monitoring and Documentation by Therapy

### Module 12 Focus: Transfusions and Blood Products

- ABO Compatibility
- Responsibilities
- Adverse Reactions
- Adverse Reaction Treatment

### Module 13 Focus: Central Line Catheters

- Overview
- Criteria for Central Line
- Catheter Types
- Roles & Responsibilities
- Emergencies

## Classroom/Lab Modules

### Module 1 Finding a vein

### Module 2 Venous Access Device Insertion

### Module 3 Venous Access Device Troubleshooting

### Module 4 Tips and Techniques

### Module 5 Venous Access Device Removal

### Module 5 Skills Practice

### Module 7 Skills Testing