



# IV MASTERY

**THE LEADER IN ONLINE EDUCATION**

**PHARMSCRIPT.IVMASTERY.COM**

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# WHY USE IV MASTERY

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## Overview of IV Mastery

IV Mastery is the premier state-of-the-art online infusion therapy learning management system for the healthcare professional.

We have created IV Mastery with the mission of simplifying the education process for facilities without breaking the bank.

### Why use IV Mastery as your training platform?

#### It is Convenient

As you know, it is a continuous challenge to gather healthcare workers from all shifts in a room all at the same time for hours of teaching while keeping enough staff on the floor to take care of the residents. It does not matter how hard you try; there will always be employees who miss classes.

IV Mastery has been designed to be convenient for employees of all shifts. IV Mastery offers online classes broken down into 30 to 60-minute modules. It is user-friendly and easy to navigate, and you find the training you need when you need it and as often as you need it.

Each healthcare worker can learn at their own pace, based on their needs.

It is the perfect tool to educate healthcare workers and maintain the highest quality of care.

#### The Logistic is simple

One big challenge with staff education is maintaining accurate records of the training provided and tracking who needs training and when it is needed.

With IV Mastery, records and certificates of completion are kept online and are always available to show or print when needed.

With IV Mastery, the healthcare worker and the employer can track their progress in real-time. Employers can give deadlines to complete a class and monitor their employees' progress.

With IV Mastery, all your employees will be trained when and how you want them to be trained and as often as needed.

IV Mastery makes record-keeping simple and available at all times.

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## **It is affordable**

One of the ultimate challenges in today's healthcare system is, most definitely, the financial struggles. Healthcare facilities have to operate under immense financial pressure. The cost of operations keeps increasing while reimbursement is reduced year after year, so every penny counts.

Even though there is less money available, the requirements for employee education are still the same and come at the cost of thousands of dollars yearly. For example, an average class on IV management with only 8-10 nurses can easily cost up to \$4,000 or more.

We created IV Mastery to be an affordable solution for IV education. An entire year subscription costs a fraction of the cost of only one conventional class.

When you subscribe to IV Mastery, all your staff has unlimited access to all the classes with no hidden fees or extra charges.

IV Mastery classes are built in a way that allows your staff to be trained during their downtime. All the classes are divided into 30 to 60-minute segments that allow your employees to learn during their downtime.

With IV Mastery, you can train your staff 24/7 all year long at their own pace and save thousands of dollars while keeping them educated and compliant with state regulations.

## **It is Compliant with Regulations**

IV Mastery meets the highest standards of compliance. We follow the Standards of Practice from the Infusion Nurse Society (INS), the DPH Regulations, the CDC Standards of Practice, and the Association for Vascular Access (AVA) recommendations.

For every class completed, your employees will receive a certificate of completion.

**Important:** IV Mastery is not a substitute for your IV Policies and Procedures Manual. It was created for educational purposes, and we recommend constantly referring to your facility's IV Policies and Procedures Manual when caring for your residents.

IV Mastery is not a substitute for employee competencies. We recommend referring to your DPH regulations for competency requirements. Competencies are to be performed by the facility's qualified staff in a real work environment. IV Mastery has provided you with print-outs of competencies form for each class to facilitate this aspect.

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## **ABOUT THE ADVANTAGES OF ONLINE LEARNING IN NURSING EDUCATION**

The nursing field demands a dynamic approach to education that combines theoretical knowledge with practical skills. In the realm of Intravenous (IV) therapy, integrating online learning with hands-on clinical experience offers a powerful educational paradigm. This blended approach enhances nurses' understanding of theoretical concepts and ensures the acquisition and application of essential skills in a clinical setting.

### **Advantages of Online Learning:**

IV Mastery's online learning modules provide a robust foundation for understanding the intricacies of Intravenous therapy. Through multimedia presentations, virtual demonstrations, and engaging content, nurses can grasp theoretical concepts related to IV therapy. This mode of learning allows for self-paced study, catering to the diverse learning styles and schedules of nursing professionals.

Online platforms offer a wealth of resources, including video demonstrations, printable assistive media, and interactive quizzes, providing nurses with comprehensive materials to reinforce their understanding of IV therapy. These resources are accessible 24/7, allowing nurses to revisit key concepts and access supplementary materials at their convenience, fostering a deeper and more sustainable knowledge base.

### **Integration of Theory and Practice:**

While online learning establishes a solid theoretical foundation, hands-on clinical experience is indispensable for the practical application of IV therapy skills. IV Mastery provides this hands-on experience in combination with its online learning modalities. This synergy between online learning and hands-on clinical experience creates a comprehensive learning experience for nurses. Theoretical knowledge gained through online modules is applicable and reinforced during clinical practice. This integration fosters a deeper understanding of IV therapy's complexities, promoting information retention and increasing the likelihood of successful skill implementation in real-world healthcare settings.

### **Conclusion:**

Integrating online learning with hands-on clinical experience in intravenous therapy education for nurses represents a progressive and holistic approach to professional development. This blended model facilitates a solid theoretical foundation and ensures that nurses acquire and refine practical skills, ultimately producing competent and confident healthcare professionals capable of delivering high-quality IV therapy in diverse clinical settings.

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# WHAT IS AVAILABLE ON OUR TRAINING PLATFORM

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## IV MASTERY EDUCATIONAL PROGRAM CLASSES DESCRIPTION

### STATE-SPECIFIC IV MANAGEMENT CERTIFICATION AND RE-CERTIFICATION

The State-Specific customized IV Mastery's flagship course is customized towards meeting each state-specific requirement for LPNs/LVNs and RNs who need education in a wide range of IV management and care knowledge and skills. During this class, the nurse will receive thorough online training covering this wide range of topics required by their Board of Nursing to become fully certified in IV Management. Course topics will include, among other things, a review of vein anatomy and physiology, indications for IV therapy, infection control, nursing management, and equipment complications. Nursing assessment, documentation, and common IV drugs will be discussed. Care of central lines and central line dressings will also be covered. Upon completing this class, nurses will earn a certificate of completion in IV management and care. It will also include any additional topic each state requires to meet their requirements for CEUs and clinical labs.

#### **Class Overview**

This class will cover the following subjects in detail:

- The Legal Implications of IV Therapy and Legal Governance.
- The Psychological Aspect of IV Therapy.
- Infection Prevention and Adverse Reaction.
- Hydration Therapy and Fluid Regulation.
- IV Medication Administration Standards of Practice.
- Vascular Anatomy and Peripheral Catheter Management.
- Understanding Central Vascular Access Devices.
- Central Vascular Access Device Complications and Management.
- Central Vascular Access Device Dressing Change.
- Clinical Practice and Skills Assessment for Licensed Professional.
- Implanted Port Management.
- Peripheral Catheter Insertion.
- And any additional topics required by each State Board of Nursing.

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## **MIDLINE AND CENTRAL LINE DRESSING CHANGE**

This module focuses on the proper procedures for dressing changes for Midline catheters and Central Venous Access Devices (CVADs). The module emphasizes standardized and hygienic practices to reduce the risk of complications associated with Midline catheter and CVAD dressing changes.

**Upon completing this module, students will be able to:**

1. Comprehend the general guidelines for when and how to perform dressing changes on Vascular Access Devices (VADs).
2. Differentiate between the dressing change intervals for transparent dressings and gauze and tape dressings.
3. Identify circumstances that require immediate dressing changes.
4. Demonstrate the proper use of personal protective equipment (PPE) during a dressing change.
5. Perform a CVAD dressing change procedure.
6. Assess the insertion site and surrounding tissue for signs of inflammation, tenderness, or drainage and report findings accordingly.
7. Document the procedure accurately.

## **PERIPHERAL CATHETER INSERTION**

The “Short Peripheral Catheter Insertion” class is designed to provide students with the necessary knowledge and practical skills to insert peripheral catheters safely and effectively. The module emphasizes the importance of intravenous management in delivering treatment while ensuring patient comfort, minimizing tissue damage, and maintaining venous access. Through a combination of theory and hands-on training, students will learn about the anatomy and physiology of superficial veins, proper catheter insertion techniques, and the management of complications associated with intravenous therapy.

**Upon completing this module, students will be able to:**

1. Describe the basic anatomy and physiology of the superficial veins of the arms and hands.
2. Locate and assemble the required equipment for IV cannulation or venipuncture.
3. Perform a successful IV cannulation on the training arm.
4. Identify patient education requirements.
5. Demonstrate critical thinking relevant to managing the risks and complications of IV cannulation.
6. Be aware of documentation requirements in relation to cannulation.

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## **IMPLANTED PORT ACCESS/DE-ACCESS AND MAINTENANCE CERTIFICATION**

This module is designed to provide students with a comprehensive understanding of implanted venous ports, including their structure, usage, maintenance, and potential complications. This module emphasizes the unique features and benefits of implanted ports, making it an essential part of infusion therapy training.

### **Upon completing this module, students will be able to:**

1. Explain the distinctive characteristics of implanted venous ports, emphasizing their location entirely under the skin.
2. Describe the three main components of an implanted port: the catheter, reservoir, and septum.
3. Understand the importance of accessing the port's reservoir with a non-coring needle and its durability for multiple punctures.
4. Recognize the need for a sterile dressing when accessing the port.
5. Comprehend the differences between single-lumen and double-lumen ports.
6. Distinguish the advantages of implanted ports.
7. List the indications for using implanted ports in clinical practice and when and why they should be accessed or flushed.
8. Explain the assessment process for determining the appropriate gauge and length of access needle based on a patient's port depth and therapy.
9. Be familiar with topical anesthesia for reducing patient discomfort during port access.
10. Identify potential complications associated with implanted ports.
11. Understand the recommended treatments and interventions for addressing these complications, ensuring patient safety and care quality in the context of implanted port management.

## **PARENTERAL NUTRITION**

This module provides comprehensive training for nursing staff responsible for the care of residents receiving parenteral nutrition (PN). It covers essential regulations, definitions, and procedures related to the administration of PN. Participants will gain a deep understanding of the principles, regulations, and interdisciplinary coordination involved in providing sterile, intravenous nutrition.

### **Upon completing this module, students will be able to:**

1. Understand the concept of sterile, intravenous nutrition delivery.

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2. Differentiate between PPN and TPN, including their indications, administration routes, and regulatory requirements.
  3. Understand the distinctions between continuous and cycled parenteral nutrition.
  4. Have gained hands-on skills in administering continuous or cycled parenteral nutrition.
  5. Identify potential complications associated with parenteral nutrition.
  6. Recognize the collaborative nature of parenteral nutrition management.
  7. Have learned to apply monitoring protocols for residents on parenteral nutrition.

#### **IV PUSH MEDICATIONS**

This module provides participants with the ability to safely administer IV antibiotics, a comprehensive understanding of the critical role of half-life in antibiotic therapy, and the practical skills to adhere to best practices in IV medication administration. This will directly contribute to the enhancement of patient care and safety in the field of infusion therapy.

#### **Upon completing this module, students will be able to:**

1. Understand the concept of antibiotic therapy and its role in destroying infectious microbes.
2. Identify specific antibiotics used in IV therapy and comprehend their respective characteristics.
3. Explain the significance of a medication's half-life and how it influences dosing schedules.
4. Determine appropriate medication schedules based on the antibiotic's half-life, emphasizing the importance of adherence for therapeutic effectiveness.
5. Follow general guidelines for IV medication administration, including formulary listing, patient allergy assessment, and recognition of antibiotic side effects.
6. Manage IV tubing effectively, including knowing when to change it and ensuring proper labeling and documentation.
7. Correctly label IV antibiotic bags with essential information to support safe and effective administration.
8. Understand the recommendations for various IV access types, such as peripheral, midline, and central catheters, based on the characteristics of antibiotics and duration of therapy.
9. Administer IV antibiotics as secondary piggyback infusions, following the steps for compatibility checks, bag inspection, and infusion setup.
10. Monitor patients during IV antibiotic infusion, ensuring compliance with facility policies and procedures to maintain patient safety.



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## **PICC REMOVAL**

This module is designed to equip healthcare professionals, particularly registered nurses and licensed practitioners, with the necessary skills and knowledge to safely and effectively remove PICC lines. This comprehensive program covers PICC removal guidelines, procedural steps, and special considerations, emphasizing the importance of adherence to facility policies, state laws, and infection control procedures.

### **Upon completing this module, students will be able to:**

1. Understand and adhere to facility policies and state laws governing PICC removal.
2. Implement infection control and safety compliance procedures during PICC removal.
3. Ensure that pre-insertion catheter length and arm circumference are considered.
4. Use aseptic technique and proper catheter withdrawal technique.
5. Apply pressure to the site, assess for complications (redness, drainage, hematoma), and follow proper wound care procedures.
6. Document the procedure, findings, and communications in the patient's medical record.
7. Understand when PICC removal with culture is necessary and follow the appropriate steps for post-removal catheter handling.

## **IV DIURETIC AND IV INOTROPIC IN THE TREATMENT OF CHF**

This course focuses on the treatment of CHF through the administration of IV diuretics and IV inotropic therapy. Through continuous infusion, participants will gain in-depth knowledge, practical skills, and competency necessary to safely and effectively administer diuretic and inotropic medications.

### **Upon completing this module, students will be able to:**

1. Define congestive heart failure (CHF)
2. Understand the anatomy of a normal heart, the development of heart failure, and the impact on the heart's chambers and valves.
3. Identify commonly used IV diuretics and IV inotropic medications.
4. Comprehend the mechanism of action involved in the continuous infusion of loop diuretics, specifically in the context of managing CHF.
5. Calculate and administer appropriate dosages of intravenous diuretic and inotropic medications for the treatment of congestive heart failure.

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6. Exhibit understanding of the steps involved in preparing and infusing diuretic and inotropic medications.
  7. Accurately monitor, recognize, and treat potential complications of IV diuretic and IV inotropic medications.
  8. Document their administration of IV diuretic and IV inotropic medications.

### **BLOOD COLLECTION FROM A PICC**

This module is designed to provide healthcare professionals with comprehensive knowledge and practical skills related to the collection of blood specimens from central lines. The program emphasizes adherence to current standards of practice, competency in various blood collection methods, and documentation procedures.

#### **Upon completion of the module, students will be able to:**

1. Understand and discuss the current standards of practice associated with blood collection from central lines.
2. Differentiate between the syringe and vacutainer methods of blood collection.
3. Demonstrate the necessary competency to collect blood from a central line successfully and safely.
4. Document the entire blood collection procedure in the patient's medical record.
5. Understand and apply general knowledge considerations essential to consider before a blood collection.
6. Recognize the importance of avoiding blood collection from the lumen used for parenteral nutrition to prevent complications, such as hemolysis.
7. Proficiently perform the syringe method.
8. Proficiently perform the vacutainer method.
9. Execute post-blood collection protocols.

### **UNDERSTAND AND INITIATE HYPODERMOCLYSIS**

This module is designed to educate healthcare professionals on the principles and applications of hypodermoclysis for managing mild to moderate dehydration. Students will gain comprehensive knowledge to make informed decisions and deliver effective patient care using hypodermoclysis as a hydration alternative.

#### **Upon completion of the module, students will be able to:**

1. Grasp the concept of hypodermoclysis as a subcutaneous injection of fluids.

2. Recognize the appropriate scenarios for the use of hypodermoclysis.
3. Understand the advantages and disadvantages of hypodermoclysis compared to IV administration.
4. Be familiar with solutions suitable for infusion through hypodermoclysis.
5. Comprehend the role of Hyaluronidase in enhancing the absorption of injected solutions during hypodermoclysis.
6. Be familiar with the proper insertion sites for use in hypodermoclysis.
7. Demonstrate proficiency in the proper procedure for administering hypodermoclysis.
8. Be aware of potential complications associated with hypodermoclysis and understand the monitoring and intervention measures required to ensure patient safety.
9. Understand and apply appropriate infusion rates for hypodermoclysis.
10. Educate patients or caregivers on hypodermoclysis.

### **PHLEBOTOMY PROCEDURES**

This module provides students with a comprehensive understanding of venipuncture procedures, emphasizing proper techniques, safety measures, and considerations for different patient populations. The course covers essential topics, including equipment, standard precautions, vein selection, and potential complications. Students will gain hands-on experience in the vacutainer and syringe methods, ensuring they are well-prepared to perform blood draws with precision and care.

#### **Upon completion of the module, students will be able to:**

1. Understand and apply the correct order for filling blood collection tubes during venipuncture.
2. Recognize and emphasize the importance of using standard precautions during venipuncture to prevent infection and ensure safety.
3. Demonstrate proficiency in performing the evacuated tube venipuncture method.
4. Demonstrate proficiency in performing the syringe venipuncture method.
5. Be aware of contraindications that may prevent the completion of venipuncture procedures.
6. Recognize possible complications resulting from venipuncture.
7. Effectively document the venipuncture procedure in the patient's medical record.
8. Be familiar with and demonstrate knowledge of phlebotomy equipment.

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## **TRANSFUSION THERAPY**

This module is designed to equip nurses with the essential knowledge and skills required to safely and effectively administer blood and blood products. Participants will gain proficiency in ensuring patient safety and preventing potential complications associated with transfusion therapy.

### **Upon completion of the module, students will be able to:**

1. Explain the significance of ABO and Rh blood grouping systems in transfusion therapy.
2. List available blood components and understand the indications for each.
3. Describe the activities required before initiating a transfusion.
4. Recognize signs and symptoms of potential transfusion reactions and implement appropriate interventions.
5. Explain essential information related to transfusion therapy to patients.
6. Outline possible complications associated with transfusion therapy.
7. Demonstrate proficiency in the actual administration of blood and blood products.
8. Identify contraindications to transfusion therapy.
9. Follow infection control and safety compliance procedures during transfusion.
10. Discuss transfusion therapy's ethical and legal aspects, including informed consent.

## **PATIENT CONTROLLED ANALGESIA**

This module provides comprehensive knowledge and practical skills for healthcare professionals involved in pain management. Participants will gain a deep understanding of PCA, its applications, and potential complications, ensuring safe and effective pain relief for patients.

### **Upon completion of the module, students will be able to:**

1. Comprehend the concept and purpose of Patient Controlled Analgesia (PCA) and its role in pain management.
2. Identify the indications and contraindications for PCA use in patients with acute, chronic, or postoperative pain.
3. Evaluate the advantages and disadvantages of PCA compared to traditional pain management methods.
4. Differentiate between various methods of administering PCA.
5. Demonstrate the proper procedures for PCA administration.

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6. Recognize potential complications associated with PCA usage.
  7. Identify absolute and relative contraindications to PCA, ensuring patient safety and appropriate use.
  8. Analyze the advantages and disadvantages of PCA.
  9. Have developed the skills to manage complications related to PCA pumps.

### **ELASTOMERIC INFUSION PUMP**

This module equips healthcare professionals with essential knowledge and skills related to elastomeric infusion pumps. Participants will gain insights into the purpose, advantages, and challenges associated with these pumps, ensuring safe and effective administration of medications.

#### **Upon completion of the module, students will be able to:**

1. Define and grasp the concept of elastomeric infusion pumps, also known as "ball" or "balloon" pumps.
2. Identify the reasons for using elastomeric infusion pumps in various therapeutic areas and patient populations.
3. Evaluate the advantages and disadvantages of elastomeric infusion pumps compared to electronic pump systems.
4. Demonstrate the proper procedures for administering medications using elastomeric infusion pumps.
5. Recognize possible complications that may arise during the administration of Elastomeric Pump Infusion and take appropriate preventive measures.
6. Understand critical definitions related to elastomeric infusion pumps.
7. Identify patient populations appropriate for elastomeric infusion pump use.
8. Be familiar with guidelines for the proper use of elastomeric infusion pumps.
9. Recognize signs of a malfunctioning elastomeric infusion pump and implement appropriate interventions.
10. Understand and manage complications, side effects, and potential risks associated with the use of elastomeric infusion pumps.

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## **ULTRASOUND-GUIDED PIV INSERTION**

This module provides healthcare professionals with comprehensive training in ultrasound-guided peripheral catheter insertion principles and techniques. The course covers essential aspects, from understanding the benefits of ultrasound guidance to mastering the procedural steps and troubleshooting potential complications.

### **Upon completion of the module, students will be able to:**

1. Understand the principles and benefits of ultrasound-guided peripheral catheter insertion.
2. Identify the equipment required for ultrasound-guided peripheral catheter insertion.
3. Familiarize yourself with the anatomical landmarks and structures relevant to the procedure.
4. Learn the step-by-step process of performing ultrasound-guided peripheral catheter insertion.
5. Understand the potential complications associated with the procedure and master troubleshooting techniques.
6. Gain insights into the benefits of ultrasound guidance, including improved success rates and reduced complications compared to traditional blind techniques.
7. Identify the necessary equipment for an ultrasound-guided peripheral catheter insertion.
8. Recognize veins and landmarks used in ultrasound-guided peripheral intravenous (PIV) insertion.
9. Master the procedural steps for ultrasound-guided catheter insertion.

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# Understand IV Education for LPNs/LVNs and RNs

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## 1. How do LPNs/LVNs obtain IV certification

Let me try to clarify the process.

IV certification is a loose term. In MOST states, no actual “certification” is given to LPNs/LVNs for infusion therapy management. What is referred to as a “certification” is a class that includes a didactic class and lab practice for which the nurses receive a certificate of completion after completing the class. The nurse must refer to the rules provided by the state board where they practice nursing, as every state’s guidelines vary slightly.

To be legally able to manage infusion therapy the LPN/LVN must meet three specific requirements.

### **First, Education Requirements**

In most states, the nursing school’s curriculum to obtain your LPN/LVN license contains some infusion therapy standards. This fluctuates based on the schools of nursing and the state. Most state boards require additional education for an LPN/LVN to manage the infusion of patients. This education provides the knowledge and competency necessary to qualify the LPN/LVN to administer IV therapy. In some states, the Board of Nursing requires the infusion therapy course to be approved and includes specific content requirements. So, knowing your state board requirements is imperative before practicing infusion therapy as an LPN/LVN.

### **Second, Competency Demonstrations**

You must demonstrate competency to become qualified to perform infusion therapy as an LPN/LVN. This is also known as a skills competency or skills validation. The skills demonstration is to be performed under the supervision of a preceptor with proper understanding and competences. The preceptor ensures that you are competent and skilled to manage the infusion therapy of patients.

### **Third, Scope of Practice**

To be allowed to manage infusion therapy on patients, LPN/LVN must make sure they are working within the legal scope of practice defined by their State Board of Nursing. That is why IV Mastery recommends contacting your state’s Board of Nursing.

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## 2. IV Education Requirements for RNs

For Registered Nurses, no additional education is required outside of basic nursing curricula to perform infusion therapy for patients. The standard is that an RN performing infusion therapy should have the requisite knowledge and skills derived from application of the Infusion Nursing Standards of Practice. However, due to the lack and/or inconsistency of infusion therapy in basic nursing curricula, the Infusion Nurses Society recommends that the RN complete an organized educational program on infusion therapy. This basic knowledge of safe administration of IV therapy is the standard to which all nurses will be held in a court of law should a lawsuit occur. To sum it up, additional education beyond nursing school is not required but is recommended for RNs to perform infusion therapy on patients.

It is our hope at IV Mastery that we can partner with you to meet your educational needs and help you achieve new heights of success! Our comprehensive online education courses give you the competency and knowledge needed to administer infusion therapies. For all states, our courses meet continuing education requirements and provide an excellent refresher course for the Registered Nurse or as a primer for the new-grad RN!





**Our goal is to provide the healthcare industry  
with the highest quality in IV education  
at the most competitive price.**