



# EXAMINATION PREPARATION

This Examination guide provides a comprehensive overview of the exam structure for those pursuing the **IASHEP Respiratory Train the Trainer (CRTT™)** certification. It ensures the test aligns with core knowledge areas, emphasizes real-world application, and includes proper training and regulatory content.

## Examination Preparation Guide

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### Certified Respiratory Train the Trainer (CRTT) Exam Preparation Guide

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#### 1. Examination Purpose and Target Audience

- **Purpose:** To assess the knowledge, skills, and competencies required for respiratory therapists to effectively train others in respiratory care practices.
  - **Target Audience:** Experienced respiratory therapists looking to become certified trainers to instruct peers or students in respiratory therapy techniques and best practices.
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#### 2. Exam Structure

Component	Number of Questions	Weight (%)
Knowledge-Based Questions	50	50%
Practical Case-Based Scenarios	5	30%
Training Techniques Evaluation	1	20%

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#### 3. Key Competency Areas

##### 1. Respiratory Therapy Foundations (25%)

- **Topics Covered:**
  - Anatomy and Physiology of the Respiratory System
  - Pulmonary Diseases (e.g., COPD, asthma, pneumonia)
  - Airway Management (e.g., intubation, tracheostomy care)
  - Oxygen Therapy and Ventilation (e.g., CPAP, BiPAP, mechanical ventilation)
  - Pharmacology in Respiratory Care (e.g., bronchodilators, corticosteroids)
- **Question Types:**
  - Multiple Choice
  - True/False
  - Matching



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## 2. Advanced Respiratory Care Techniques (20%)

- **Topics Covered:**
  - Non-Invasive Ventilation
  - Arterial Blood Gas (ABG) Interpretation
  - Pulmonary Function Testing (PFT)
  - Aerosol Therapy
  - Special Populations (e.g., pediatrics, geriatrics, critical care)
- **Question Types:**
  - Case-Based Scenarios
  - Short Answer
  - Simulated Clinical Situations

## 3. Training and Instructional Methodology (20%)

- **Topics Covered:**
  - Adult Learning Theory (e.g., Knowles' Andragogy Model)
  - Instructional Design Principles (e.g., ADDIE Model)
  - Training Modalities (e.g., hands-on, simulation, e-learning)
  - Assessment and Feedback Techniques
- **Question Types:**
  - Essay
  - Multiple Choice
  - Teaching Demonstration (for practical evaluations)

## 4. Clinical Training Facilitation (15%)

- **Topics Covered:**
  - Simulation-Based Learning in Respiratory Care
  - Managing a Respiratory Training Program
  - Group Facilitation Techniques
  - Effective Communication and Coaching
- **Question Types:**
  - Role Play Scenarios
  - Essay
  - Short Answer

## 5. Assessment and Evaluation (10%)

- **Topics Covered:**
  - Creating Learning Objectives and Assessment Tools



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- Objective Structured Clinical Examination (OSCE)
- Monitoring Student Progress and Providing Feedback
- Remediation Strategies for Underperforming Students
- **Question Types:**
  - Case Studies
  - Multiple Choice
  - Essay

## 6. Ethics and Professionalism in Respiratory Training (10%)

- **Topics Covered:**
  - Ethical Guidelines in Respiratory Care Education
  - Cultural Competence in Teaching and Patient Care
  - Maintaining Professional Boundaries
- **Question Types:**
  - Multiple Choice
  - True/False
  - Role Play Scenario (practical)

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## 4. Examination Format

- **Total Duration:** 3-4 hours
- **Types of Questions:**
  - **Multiple Choice:** 40-50%
  - **Short Answer:** 20%
  - **Case-Based/Scenario-Based:** 20%
  - **Practical Evaluation (Demonstration/Role Play):** 10-20%

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## 5. Example Questions

### A. Knowledge-Based Question:

- *Multiple Choice*  
*Which of the following is the primary function of surfactant in the lungs?*
  - a) Increasing lung compliance
  - b) Reducing surface tension
  - c) Facilitating gas exchange



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d) Protecting the lungs from infection

**Answer:** b) Reducing surface tension

## B. Case-Based Scenario:

- *Short Answer*

*A patient with COPD is experiencing difficulty weaning from mechanical ventilation.*

*Interpret the following arterial blood gas results and suggest a course of action.*

- pH: 7.31
- PaCO<sub>2</sub>: 56 mmHg
- HCO<sub>3</sub>: 28 mEq/L
- PaO<sub>2</sub>: 65 mmHg

## C. Training Techniques Evaluation:

- *Demonstration*

*Prepare and deliver a 15-minute training session on proper techniques for administering aerosol therapy. Include both a theoretical explanation and a practical demonstration.*

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## 6. Scoring and Passing Criteria

- **Passing Score:** 75% or higher overall.
  - **Weighting:** Knowledge-Based (50%), Case-Based/Practical Scenarios (30%), Training Techniques (20%).
  - **Performance-Based Assessment:** Practical evaluations will be scored on content accuracy, clarity, engagement with learners, and effective use of training tools.
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## 7. Recommended Study Resources

- Textbooks: *Egan's Fundamentals of Respiratory Care, Handbook of Respiratory Care*
- Online Resources: American Association for Respiratory Care (AARC) learning modules
- Simulation Labs and Workshops on Training Techniques



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**NOTHING ELSE FOLLOWS**