



SURGICAL TECHNOLOGIST

OD38621

ALIGNS WITH AST ASSOCIATION OF SURGICAL TECHNOLOGISTS

COMPETENCY-BASED EDUCATION: OKLAHOMA'S RECIPE FOR SUCCESS

BY THE INDUSTRY FOR THE INDUSTRY

Oklahoma's *CareerTech* system of competency-based education uses industry professionals and certification standards to identify the knowledge and abilities needed to master an occupation. This industry input provides the foundation for development of instructional materials that help prepare the comprehensively trained, highly skilled employees demanded by our workplace partners.

TOOLS FOR SUCCESS

CareerTech relies on three basic instructional components to deliver competency-based instruction: skills standards, curriculum materials, and competency assessments.

Skills standards provide the foundation for competency-based instruction in Oklahoma's *CareerTech* system. The skills standards outline the knowledge, skills, and abilities needed to perform related jobs within an industry. Skills standards are aligned with national skills standards; therefore, a student trained to the skills standards possesses technical skills that make him/her employable in both state and national job markets.

Curriculum materials contain information and activities that teach students the knowledge and skills outlined in the skills standards. In addition to complementing classroom instruction, curriculum resources provide supplemental activities to enhance learning and provide hands-on training experiences.

Competency Assessments test the student over material outlined in the skills standards and taught using the curriculum materials. When used with classroom performance evaluations, written competency assessments provide a means of measuring occupational readiness.

Although each of these components satisfy a unique purpose in competency-based education, they work together to reinforce the skills and abilities students need to gain employment and succeed on the job.

MEASURING SUCCESS

Written competency assessments are used to evaluate student performance. Results reports communicate competency assessment scores to students and provide a breakdown of assessment results by duty area. The results breakdown shows how well the student has mastered skills needed to perform major job functions and identifies areas of job responsibility that may require additional instruction and/or training.

Group analysis of student results also provides feedback to instructors seeking to improve the effectiveness of career and technology training. Performance patterns in individual duties indicate opportunities to evaluate training methods and customize instruction.

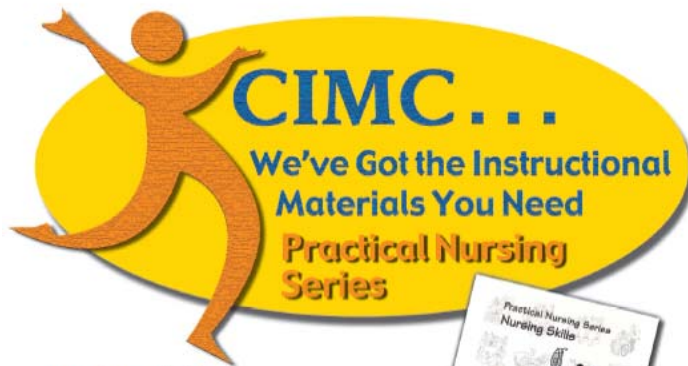
TRUE TO OUR PURPOSE

"Helping Oklahomans succeed in the workplace" defines the mission of Oklahoma *CareerTech* and its competency-based system of instruction. Skills standards, curriculum, and assessments that identify and reinforce industry expectations provide accountability for programs and assure *CareerTech*'s continued role in preparing skilled workers for a global job market

Copyright 2006
Oklahoma Department of Career and Technology Education
All rights reserved

Printed in the United States of America by the
Oklahoma Department of Career and Technology Education
Stillwater, Oklahoma

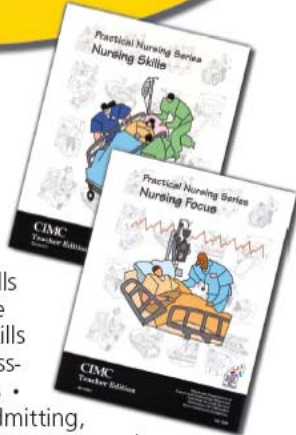
The Oklahoma Department of Career and Technology Education does not discriminate on the basis of race, creed, color, national origin, sex, age, veteran status, or qualified handicap.



Nursing Skills

Table of Contents

Safety Skills • Skills for Asepsis • Skills for Managing the Patient's Environment • Vital Sign Skills • Personal Care Skills • Skills for Moving Patients • Wound Care Skills • Respiratory Care Skills • Digestive Care Skills • Urinary Care Skills • Skills for Applying Heat and Cold • Assessment Skills • Decision-Making Skills • Documentation Skills • Skills for Admitting, Transferring, and Discharging Patients • Pre- and Post-Operative Care Skills • Skills for the Care of a Dying Patient • Skills for Managing Pain • Skills for Oncology Care • Skills for Geriatric Care • Phlebotomy Skills



Nursing Focus

Table of Contents

Introduction to Nursing Focus • Skin Focus • Musculoskeletal Focus • Cardiac Focus • Vascular Focus • Hematology Focus • Respiratory Focus • Digestive Focus • Urinary Focus • Brain and Nerve Focus • Mental Focus • Sensory Focus • Immune Focus • Hormone and Reproductive Focus • Pregnancy Focus • Labor and Delivery Focus • Postpartum Focus • Infant Focus • Child Focus • Adolescent Focus

Nursing Concepts

Table of Contents

Concepts of Learning • Concepts of Wellness • Concepts of Adult Development • Concepts of Professionalism • Concepts of Communications • Concepts of Medical Language • Concepts of Patient Teaching • Concepts of Nursing Ethics and Law • Concepts of Healthcare Economics

Nursing Extensions

Table of Contents

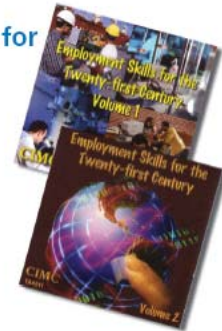
Leadership Skills • Skills for Success • Practice Settings



Employment Skills for the 21st Century, Volume I and II

The volume covers:

- Career Exploration
- Skills Practices
- Internet Activities
- 16 Career Clusters



201 activities on each CD to:

- Develop and apply skills for tomorrow's workplace
- Develop thinking and problem-solving skills on a higher cognitive level
- Develop teamwork and cooperation skills
- Develop oral communications and listening skills
- Develop research and organizational skills
- Develop self-esteem and leadership skills
- Develop reading, writing and computational skills

Online Competency Assessment

The following competency test may be give online with immediate results:

Health Science Technology Core

For more information on this test, call 405-743-5412 or visit or website at www.okcareertech.org/testing

For more information and pricing on these products, call 405-654-4502 or visit our website at www.okcimc.com



**SURGICAL TECHNOLOGIST
SKILLS STANDARDS
Frequency and Criticality Ratings**

Duty A: Peri-Operative Patient Care

Duty B: Intra- and Post- Operative Procedures

Duty C: Ancillary Functions

Duty D: Basic Science

The percentages listed at the end of each Duty represent the alignment with AST (Association of Surgical Technologists)

DUTY A: Peri-Operative Patient Care (10%)

CODE	TASK
A.01	Fundamentals of diagnostic results (e.g., normal ranges of lab results, basic orientation of X-rays, abnormalities of results)
A.02	Patient transfer principles and modes of transportation
A.03	Fundamentals of urinary catheterization techniques
A.04	Patient positioning principles
A.05	Draping principles and materials
A.06	Skin preparation principles
A.07	Legal and ethical aspects of surgery
A.08	Surgical conscience
A.09	Patient needs
A.10	Pre-operative documentation
A.11	Surgical scrub principles
A.12	Donning sterile gown and gloves
A.13	Operating room physical environment
A.14	Personal protective equipment and attire
A.15	Principles and methods of opening sterile supplies

DUTY B: Intra- and Post-Operative Procedures (36%)

CODE	TASK
B.01	Patient emergency and safety procedures
B.02	Fundamentals of patient monitoring techniques
B.03	Instrument classification, functions, and usability
B.04	Methods of operative exposure
B.05	Methods of hemostasis
B.06	Stapling and suturing materials and techniques
B.07	Thermal surgical techniques and safety
B.08	Radiologic surgical techniques and safety
B.09	Laparoscopic surgical techniques and safety
B.10	Ultrasonic surgical techniques and safety
B.11	Standard Precautions and exposure(s) protocol
B.12	Safety and environmental hazards
B.13	Types and uses of supplies
B.14	Surgical implants
B.15	Types of surgical equipment

B.16	Surgical procedures and sequences
B.17	Care and handling of specimen(s)
B.18	Handling procedures for blood and waste products
B.19	Counting procedures
B.20	Post-operative clean up procedures

DUTY C: Ancillary Functions (10%)

CODE	TASK
C.01	Inventory of supplies and equipment
C.02	Apply Standard Precautions to all job tasks
C.03	Apply OSHA and CDC guidelines
C.04	Demonstrate use of MSDS sheets
C.05	Apply principles of accident prevention <ul style="list-style-type: none"> • Incident reports
C.06	Participate in disaster drills
C.07	Identify appropriate precautions for various job tasks <ul style="list-style-type: none"> • Invasive vs. non-invasive items

DUTY D: Basic Science (44%)

CODE	TASK
D.01	Medical terminology and abbreviations
D.02	Anatomy and physiology
D.03	Surgical pathology
D.04	Biology and microbiology
D.05	Stages of wound healing
D.06	Surgical wound classification
D.07	Factors influencing wound healing
D.08	Principles of tissue handling
D.09	Infection control procedures
D.10	Blood and fluid replacement
D.11	Weights and measures
D.12	Types, uses, actions, and interactions of drugs and solutions
D.13	Methods of anesthesia administration
D.14	Anesthesia related agents and medications
D.15	Complications from drug interactions