

**NEW YORK STATE EDUCATION DEPARTMENT  
MIDDLE LEVEL CAREER AND TECHNICAL EDUCATION**

**HEALTH SCIENCES**

**SAFETY IN HEALTH SCIENCE CAREERS**

**REFORMATTED MAY 2023**

## MODULE DESCRIPTION

This module introduces students to the importance of safety in health science careers. Students will examine the safety risks and potential hazards in health science environments and identify health and safety practices that will prevent injury and illness. Current issues related to personal sa

- d) Practice procedures for cleansing hands, instruments, and equipment to reduce or eliminate pathogens
- e) Practice procedures for safely transferring linens, garments, and trash from clients' environments

### 3. EMPLOYEE SAFETY

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#### **STUDENTS WILL:**

- a) Identify common lifting safety and fall hazards in health science careers
- b) Define "ergonomics" and practice principles of body mechanics and ergonomics
- c) Choose the appropriate equipment for the assigned task
- d) Use equipment and instruments according to the manufacturer's guidelines and accepted safety practices



practice the protocol: one student practices while the other observes and provides feedback; students exchange roles. Each student demonstrates for the teacher. Students write "exit tickets" summarizing how to properly wash hands to eliminate microorganisms.

## PROBLEM SOLVING AND INNOVATION

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### MAINTENANCE CART

Students brainstorm a list of equipment, tools, and supplies that support services health science professionals must bring to a client room to clean, sanitize, and disinfect. Provide students with a floorplan of a typical client room including furniture placement. Students work in small groups to design an ergonomic maintenance cart that will assist support services professionals in transporting and efficiently using the equipment, tools, and supplies in the client room. Groups present their cart plans to the class for comment and revise their designs based on feedback.

## SUSTAINABILITY

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### LIFTING SAFETY

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## **STANDARD 3A: UNIVERSAL FOUNDATION SKILLS**

Students will demonstrate mastery of the foundation skills and competencies essential for success in the workplace

## **COMMON CAREER TECHNICAL CORE STANDARDS**

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### **CAREER READY PRACTICES**

1. Act as a responsible and contributing citizen and employee
2. Apply appropriate academic and technical skills
3. Attend to personal health and financial well-being
4. Communicate clearly and effectively and with reason
5. Consider environmental, social, and economic impacts of decisions
8. Utilize critical thinking to make sense of problems and persevere in solving them
10. Plan education and career paths aligned to personal goals
11. Use technology to enhance productivity

## **NATIONAL CONSORTIUM FOR HEALTH SCIENCE EDUCATION**

Foundation Standard 2: Communications

Demonstrate methods of delivering and obtaining information, while communicating effectively

Foundation Standard 4 Employability Skills

Utilize employability skills to enhance employment opportunities and job satisfaction

Foundation Standard 5: Legal Responsibilities

Describe legal responsibilities, limitations, and implications on healthcare worker actions

Foundation Standard 6: Ethics

Understand accepted ethical practices with respect to cultural, social, and ethnic differences within the healthcare environment

## RESOURCES

**Disclaimer:** Posting of resources on this form does not constitute an endorsement from the New York State Education Department nor does it imply that the following resources are mandatory or the only ones that can be used. Teachers and administrators ensure that resources align with local policies and are responsible for choosing the resources that best meet the needs of their students. Questions regarding compliance with [Education Law 2D](#) should be directed to your administrator and/or chief information officer.

### HOSA: FUTURE HEALTH PROFESSIONALS HOSA IN THE CLASSROOM

<http://www.hosa.org/>

HOSA in the classroom provides instructional tools for health science teachers. This section of HOSA website provides an opportunity for HOSA advisors to share exciting and valuable lesson plans with teachers from across the United States.

### CENTERS FOR DISEASE CONTROL (CDC)

<https://www.cdc.gov/careerpaths/>

CDC's Career Paths to Public Health (CPP) website is a roadmap for students and teachers interested in learning and teaching about epidemiology and public health sciences (EPHS). It provides information on CDC workshops, activities, and lesson plans, as well as other resources. These materials are designed to introduce the future public health workforce to EPHS, to promote health literacy, and to provide examples of how math and science are used every day to solve public health problems.

### NEW YORK STATE DEPARTMENT OF LABOR: NEW YORK STATE CAREER ZONE

<https://www.careerzone.ny.gov>

Career Zone is a no-cost online career exploration and planning tool developed by the New York State Department of Labor. It offers career and education information on thousands of careers, as well as, self-assessment and career planning tools. Career Zone is appropriate for users from middle school through adult.

## UNITED STATES DEPARTMENT OF LABOR CAREER ONESTOP

<https://www.careeronestop.org>

CareerOneStop is the career, training, and job search website for the U.S. Department of Labor. The website serves job seekers, businesses, students, and career advisors with a variety of free online tools, information, and resources.

## ASSOCIATION OF CAREER AND TECHNICAL EDUCATION: CAREER PLANNING GUIDE

[https://www.acteonline.org/wp-content/uploads/2018/02/ACTE\\_CC\\_Paper\\_FINAL.pdf](https://www.acteonline.org/wp-content/uploads/2018/02/ACTE_CC_Paper_FINAL.pdf)

Research has identified middle school as a time when students can benefit the most from career exploration, a process of building self-awareness, learning about potential careers, and developing a plan for reaching future goals.

## ADVANCE CTE: MIDDLE LEVEL CAREER INTEREST INVENTORY

<https://cte.careertech.org/sites/default/files/StudentInterestSurvey-English.pdf>

AdvanceCTE provides a Career Interest Inventory worksheet to use with students in helping them identify the potential matches to the sixteen career clusters available to them.

## NEW YORK STATE HEALTH SCIENCE EDUCATORS ASSOCIATION (NYSHSEA)

<http://www.nyshsea.org/home.html>

NYSHSEA serves as a resource group for educators seeking consultation concerning Health Science education and promotes communication among NYSHSEA members. NYSHSEA collaborates with other groups and individuals on matters affecting Health Science Education and supports NYSED activities.

## CAREER AND TECHNICAL EDUCATION TECHNICAL ASSISTANCE CENTER OF NEW YORK

<http://nyctecenter.org/>

The Career and Technical Education Technical Assistance Center (CTE TAC) operates under a state contract to assist the New York State Education Department (NYSED) in carrying out its mission of improving the quality, access, and delivery of career and technical education through research-based methods and strategies resulting in broader CTE opportunities for all students.