

Appendix C

RECOMMENDATIONS FOR RELATED TECHNICAL CLASSROOM INSTRUCTION FOR HEALTH SCIENCE YA

These recommendations are intended to be used by the YA Consortiums when determining appropriate related technical instruction for Health Science YA. It is not all inclusive but should be used to assist the partnership with identification and/or development of course work that supports the work-based competencies as identified in the Skill Standards Checklist. As with all YA programs the consortium must ensure that the related instruction meets with the approval of their administration and school board.

OPERATIONAL NOTES

Related Technical Classroom Instruction may be offered by the employer, within the school district, at another school district, at a Wisconsin Technical College, and/or at a Community College or University by instructors qualified according to the [Youth Apprenticeship Program Operations Manual](#).

Learning Objectives are the foundation of related technical classroom instruction. Consortiums may teach using locally developed coursework; however, it is recommended that agreements with the local technical college be pursued to obtain post-secondary credit for YA worksite and classroom experiences.

A minimum of 180 hours (2 semesters) of related technical instruction is required for each one year YA program with 250 of the **work** hours coinciding with the instruction. The student must also receive high school credit towards graduation for this instruction, no matter the provider.

It is suggested that the following courses or learning experiences be provided as a pre-requisite OR concurrently for students interested in this youth apprenticeship:

- Introduction to Health Care Careers
- Biology
- Chemistry
- Anatomy and Physiology
- Medical Terminology
- CPR, First Aid, Choking Maneuver training and certification
- Additionally, students should complete a job shadow prior to enrollment in the Health Science YA program.

If applicable and available at the worksite, efforts should be made with the employer to offer the student a continuing [Registered Adult Apprenticeship](#) upon high school graduation.

Only nurse aide training programs approved by the Wisconsin Department of Health Services can provide Certified Nursing Assistant (CNA) Training.

See <http://www.dhs.wisconsin.gov/caregiver/NATD/NrsAidTrgPrgInf.HTM> for regulations on Wisconsin's nurse aide training requirements.

Commercial programs or Employer provided classroom certification programs are also appropriate provided that the student receives high school credit towards graduation for the class work.

Possible classroom programs include training and certification by the American Red Cross (<http://www.redcross.org/takeaclass>) and American Heart Association (http://www.heart.org/HEARTORG/CPRAndECC/CPR_UCM_001118_SubHomePage.jsp).

Recommendations for this Appendix were obtained from Employers, the Wisconsin Department of Public Instruction, Wisconsin Technical College Faculty, YA Consortium/School District Coordinators during the Health Science YA Survey, August 2006 & 2011, and through the National Association of State Directors of Career Technical Education Consortium (NASDCTEc) recommendations at <http://www.careertech.org/>- Funded in part by the U.S. Department of Education.



Health Science Youth Apprenticeship (YA) Plan of Study

NAME: _____ **DATE:** _____

The Related Technical Instruction course selection and delivery are entirely within local consortium control. The recommendations listed below are only a suggested path of YA career planning and should be individualized to meet each learner's educational and career goals. All plans should meet high school graduation requirements, as well as, college entrance requirements as applicable.

HIGHLY Recommended for ALL Health Science YA students

| Educational Level | Grade | English/ Language Arts | Social Studies Social Sciences | Math | Science | Career Pathway Courses (Electives) | Recommended Enhancement Electives or Activities |
|-------------------|-----------|-----------------------------------|---|------------|----------------------------|--|--|
| | | 4 required | 3 Required | 2 Required | 2 Required | | |
| Secondary | 9 | Oral Communication (Speech) | | | Biology | Health Computer Applications | HOSA |
| | 10 | | | | Chemistry | Health Care Careers and Delivery Systems | HOSA Healthcare Volunteer Job Shadow |
| | 11 | | | | Anatomy and Physiology | Health Science Youth Apprenticeship - Level One – Employability Skills Medical Terminology CNA (For some Therapeutic Services) CPR, First Aid, Choking Maneuver Certification | |
| | 12 | | Psychology | | AP Biology AP Chemistry | Health Science Youth Apprenticeship - Level One or Two – | |

Post-Secondary Occupational Opportunities

The chart below shows examples of career ladders organized by pathway.

For additional career cluster information, visit <http://www.careertech.org/>

For additional career information on a specific occupation, visit <https://www.wicareerpathways.org/> or <http://worknet.wisconsin.gov/worknet/default.aspx>

| | | High School Diploma, On-the-Job Training, Apprenticeships | Certificate / License (1 year or less college) | Associate's Degree (2 year college) | Bachelor's/Master's Degree (4 year college) |
|-------------------------|----------------------|--|---|--|--|
| Health Science Pathways | Therapeutic Services | <ul style="list-style-type: none"> ▪ CNA ▪ Home Health Aide ▪ Pharmacy Technician ▪ Physical Therapy Aide | <ul style="list-style-type: none"> ▪ Dental Assistant ▪ Emergency Medical Tech ▪ Licensed Practical Nurse ▪ Medical Assistant ▪ Pharmacy Technician ▪ Therapeutic Massage | <ul style="list-style-type: none"> ▪ Anesthesia Technologist ▪ Dental Hygienist ▪ Occupational Therapy Asst ▪ Optician ▪ Physical Therapy Asst ▪ Radiation Therapist ▪ Registered Nurse (ADN) ▪ Respiratory Therapist ▪ Surgical Technician | <ul style="list-style-type: none"> ▪ Clinical Nurse Specialist ▪ Dentist ▪ Nursing Administrator ▪ Nurse Practitioner ▪ Occupational Therapist ▪ Pharmacist ▪ Physician ▪ Physician's Assistant ▪ Physical Therapist ▪ Radiation Therapist ▪ Registered Nurse (BS) ▪ Respiratory Therapist ▪ Speech Pathologist |
| | Diagnostic Services | <ul style="list-style-type: none"> ▪ Lab Clerk | <ul style="list-style-type: none"> ▪ Phlebotomy Technician | <ul style="list-style-type: none"> ▪ Cardiovascular Technologist ▪ Clinical Lab Technician ▪ Electroneurodiagnostic Tech ▪ Histotechnologist ▪ Nuclear Medicine Technologist ▪ Radiologic Technician ▪ Ultrasound Technician | <ul style="list-style-type: none"> ▪ Audiologist ▪ Clinical Lab Technician ▪ Cytotechnologist ▪ Geneticist ▪ Histotechnologist ▪ Medical Technician ▪ Nuclear Medical Technician |
| | Health Informatics | <ul style="list-style-type: none"> ▪ Health Unit Coordinator ▪ Hospital Admitting Clerk ▪ Medical Receptionist ▪ Medical Records Clerk | <ul style="list-style-type: none"> ▪ Health Unit Coordinator ▪ Medical Assistant ▪ Medical Coding Specialist ▪ Medical Office Specialist ▪ Medical Transcription | <ul style="list-style-type: none"> ▪ Medical Administrative Specialist ▪ Medical Records Technician ▪ Medical Secretary ▪ Medical Transcription ▪ Health Information Tech | <ul style="list-style-type: none"> ▪ Cyberlibrarian ▪ Health Care Administrator ▪ Medical Records Administrator |
| | Support Services | <ul style="list-style-type: none"> ▪ Dietary Aide | <ul style="list-style-type: none"> ▪ Central Service Tech ▪ Interpreter ▪ Maintenance Tech | <ul style="list-style-type: none"> ▪ Clinical Research Coordinators ▪ Dietetic Technician ▪ Disability Support Specialist | <ul style="list-style-type: none"> ▪ Dietician ▪ Occupational Health and Safety Manager ▪ Food Safety Specialist ▪ Nurse Educator |

SOURCES: The National Association of State Directors of CTE consortium, <http://www.careertech.org/> 2006 & 2013; Waukesha County Technical College (WCTC), Susan Maresh, Waukesha County School-to-Work, 2007; Wisconsin's Worknet, <http://worknet.wisconsin.gov>