Health Science Career Cluster

Release of Revised Standards

Office of Career and Technical Education
CIP Codes Impacted

- 26.0102 Biotechnology Medical Sciences
- 51.0000 Therapeutic Services
- 51.0707 Health Informatics
- 51.1000 Diagnostic Services
Agenda

- Career and Technical Education
- Program Overview
- Process Overview
- STEP Results
- Implementation Timeline
Project Team

Michigan Department of Education

Nikki Rogers, Consultant, Health Science

Joanne Mahony, Supervisor

Denise Teague, Project Lead

LeAnn Reyes, Administrative Support
Career and Technical Education Program Overview
NATIONAL – Carl Perkins Legislation

High Skill → High Demand → High Wage
Perkins Legislation

- Better preparation for succeeding in careers (technical skills and employability skills)
- Successful transition from secondary to postsecondary education and/or employment
- Promotion of economic development to increase productivity

High Learner Achievement
# National Career Clusters

<table>
<thead>
<tr>
<th>Agriculture, Food &amp; Natural Resources</th>
<th>Hospitality &amp; Tourism</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architecture &amp; Constructions</td>
<td>Human Services</td>
</tr>
<tr>
<td>Arts, A/V Technology &amp; Communications</td>
<td>Information Technology</td>
</tr>
<tr>
<td>Business, Management &amp; Administration</td>
<td>Law, Public Safety, Corrections &amp; Security</td>
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<tr>
<td>Education &amp; Training</td>
<td>Manufacturing</td>
</tr>
<tr>
<td>Health Science</td>
<td>Marketing</td>
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<tr>
<td>Finance</td>
<td>Science, Technology, Engineering &amp; Mathematics</td>
</tr>
<tr>
<td>Government &amp; Public Administration</td>
<td>Transportation, Distribution &amp; Logistics</td>
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</tbody>
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Michigan Career Cluster - Energy
Perkins Legislation

- Technical Standards
- Training Standards & Curriculum
- Test and Certification
Sources of CTE Standards in Michigan

### National Career Cluster
- Career Ready Practices
- Common Career and Technical Core (CCTC)
- Cluster Level
- Pathway Level

### Michigan Technical Standards
- Customized
- State
- National specific to the field except NATEF

### Michigan Department of Education
- Michigan Career & Employability Skills are included in the National Career Ready Practices
Profile – Health Science

Number of Programs (132)

Enrollment (11,807)
Process Overview
CTE Data Collected

- Michigan CTE teachers teaching in state-approved programs were surveyed
- Data was gathered on how programs are delivered in other states
- Industry and postsecondary partners participated in meetings and surveys
- Standards were compiled for industry and postsecondary partner review
# Partner Review

<table>
<thead>
<tr>
<th>Importance</th>
<th>Importance Ratings</th>
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<tbody>
<tr>
<td>4</td>
<td>Essential</td>
</tr>
<tr>
<td>3</td>
<td>Very Important</td>
</tr>
<tr>
<td>2</td>
<td>Important</td>
</tr>
<tr>
<td>1</td>
<td>General Importance</td>
</tr>
<tr>
<td>0</td>
<td>Not Important</td>
</tr>
</tbody>
</table>
Decision

OCTE

Business & Industry

Teachers

Postsecondary
Standards Sorted and Segmented by CTE Teachers
STEP Results
(Standards and Technical Education Process)
GAP Format Remains the Same

<table>
<thead>
<tr>
<th>Knowledge</th>
<th>Performance Element</th>
</tr>
</thead>
</table>
| Level 1 - Knowledge (ex: I, II, III) | Level 2 - Skill (ex: A, B, C) | Level 3 - Performance Element (ex: 1, 2, 3) | Level 4 - Measurement Criteria
(lower case letters)
(This level assists in defining Level 3 - Performance Element)

<table>
<thead>
<tr>
<th>I</th>
<th>TECHNICAL STANDARDS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Job Process Planning</td>
</tr>
<tr>
<td>1</td>
<td>Formulate a set of strategies to manufacture a part and fill out an operation sheet reflecting the chosen strategies including the required speeds and feeds.</td>
</tr>
<tr>
<td>2</td>
<td>Identify all major components and functions of the machine tools, and all major hand tools, measuring tools, tools and fixtures, work materials and provide the rationale for the speeds and feeds selected.</td>
</tr>
</tbody>
</table>
GAP Knowledge Areas Remain the Same

All CIPs have Four Knowledge Areas

- Michigan Technical Skill Standards
- Pathway Standards
- Career Cluster Standards
- Career Readiness Practices
New CIP Code Titles

- 26.0102  Biotechnology Research and Development
- 51.0000  Health Science-Allied Health-Health Sciences, General
- 51.0707  Health Informatics
- 51.1000  Diagnostic Services
Changes to All CIP Codes

- Revised Michigan Technical Standards
- Revised Pathway and Cluster Standards
- Revised National Career Readiness Practices
Revised 12 Segments for
26.0102 Biotechnology Research and Development

- Academic Foundations - Life Science
- Academic Foundations - Lab Science
- Biomedical Terminology
- Safety
- Employability
- Teamwork and Communications
- Laws and Ethics in Science
- Information Technology
- Technical Skills - Health and Wellness
- Technical Skills - Research and Development
- Innovation and Industry Trends
- Biomedical Systems
Revised 12 Segments for
51.0000 Health Science-Allied Health-Health Sciences, General

- Anatomy and Physiology
- Legal Responsibilities
- Infection Control
- Client Status
- Workplace Safety
- Healthcare Delivery Systems
- Ethics
- Clinical Skills
- Wellness
- Healthcare Communications and Terminology
- Health Informatics and Technology
- Career Readiness
Revised 12 Segments for 51.0707 Health Informatics

- Academic Foundations
- Communications
- Healthcare Delivery Systems
- Employability
- Legal and Ethical
- Medical Terminology
- Safety
- Teamwork
- Healthy Behaviors
- Technical Skills
- Information Technology and Analysis
- Work-Based Learning
Revised 12 Segments for 51.1000 Diagnostic Services

- Academic Foundations
- Communication
- Healthcare System
- Employability
- Legal and Ethical
- Quality Assurance
- Safety
- Healthcare Teams
- Healthy Behavior
- Patient Assessment
- Information Technology
- Scope of Practice
Implementation Timeline
Transition year, 2017-2018

Implementation, Fall 2018
Questions Contact

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