Using Hawai‘i Data eXchange Partnership Data to Improve our Understanding of Career & Technical Education Programs at Honolulu Community College

Data Summit
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Hawai‘i P-20 Partnerships for Education
Initial Need: Employment and Licensure Data

• TAACCCT grant
• ACCJC accreditation report
• Desire a holistic view of students
• Workforce discussions (advisory boards)
Data Needs and Existing Sources

• Accreditation report requirements
  – Job placement of graduates
  – Licensure

• Existing data sources
  – Restrictions on inter-agency use of college identification numbers and social security numbers (SSN) limit direct queries between college and employment-related agencies

• New data source: Hawai‘i Data eXchange Partnership
Hawai‘i DXP Data Example

LONGITUDINAL, CROSS-SECTOR

Student data matched over time and across sectors, allows us to examine and identify ways to improve the state’s educational and workforce outcomes.

Privacy of individuals protected through de-identification or aggregation of data.

Hawai‘i State Department of Education

University of Hawai‘i System

Dept of Labor & Industrial Relations

PK-12

Postsecondary

Workforce
(Unemployment Insurance)

HIDOE graduate

HON CC graduate

Hawai‘i workforce

• What are the postsecondary outcomes of HIDOE graduates?
• How many HIDOE graduates complete a CTE program?
• How many students participate in CTE programs?
• What are the workforce outcomes of UH graduates?
• What are the educational experiences of individuals entering Hawaii’s workforce?
Hawai‘i DXP Data Request Process

1. Submit Hawai‘i DXP data request
2. Data request review and approval
3. List of graduates generated with relevant data elements attached
4. Match student data with available unemployment insurance data. De-identified data set returned with appended labor data.
5. Create aggregate tables with small cell suppression
Hawai‘i DXP Data

Available Workforce Data
- Hawai‘i unemployment insurance (UI) quarterly wage data
  - Employer’s industry classification code (North American Industry Classification System)

Limitations
- UI data only available for UH students with a valid SSN
  - No Standard Occupational Classification (SOC) code
  - No hours worked
  - UI data do not include those who are:
    - Self-employed
    - Employed by the federal government
    - Employed in another state
# Employment Outcomes of CTE Graduates

Honolulu CC AY2012-13 – AY2013-14 CTE Degrees and Certificates

<table>
<thead>
<tr>
<th>DEGREE MAJOR</th>
<th>GRADUATES</th>
<th>PCT EMPLOYED 6 MONTHS AFTER</th>
<th>PCT EMPLOYED 12 MONTHS AFTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>APTR</td>
<td>239</td>
<td>10%</td>
<td>10%</td>
</tr>
<tr>
<td>COSM</td>
<td>60</td>
<td>60%</td>
<td>58%</td>
</tr>
<tr>
<td>FIRE</td>
<td>44</td>
<td>66%</td>
<td>57%</td>
</tr>
<tr>
<td>ECED</td>
<td>43</td>
<td>65%</td>
<td>65%</td>
</tr>
<tr>
<td>RAC</td>
<td>37</td>
<td>89%</td>
<td>86%</td>
</tr>
<tr>
<td>AJ</td>
<td>35</td>
<td>63%</td>
<td>54%</td>
</tr>
<tr>
<td>AMT2</td>
<td>35</td>
<td>86%</td>
<td>86%</td>
</tr>
<tr>
<td>EIMT</td>
<td>35</td>
<td>74%</td>
<td>74%</td>
</tr>
<tr>
<td>OESM</td>
<td>30</td>
<td>63%</td>
<td>63%</td>
</tr>
<tr>
<td>WELD</td>
<td>23</td>
<td>61%</td>
<td>61%</td>
</tr>
</tbody>
</table>
Employment Outcomes of CTE Graduates
Honolulu CC AY2012-13 – AY2013-14 CTE Degrees and Certificates

<table>
<thead>
<tr>
<th>DEGREE MAJOR</th>
<th>EMPLOYED 12 MONTHS AFTER (%)</th>
<th>AVERAGE QUARTERLY WAGE 4TH QTR AFTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>COSM Cosmetology</td>
<td>58%</td>
<td>$4,377</td>
</tr>
<tr>
<td>FIRE Fire &amp; Envir Emergency Resp</td>
<td>57%</td>
<td>$12,963</td>
</tr>
<tr>
<td>ECED Early Childhood Education</td>
<td>65%</td>
<td>$5,480</td>
</tr>
<tr>
<td>RAC Refrigeration &amp; Air Cond Tech</td>
<td>86%</td>
<td>$7,843</td>
</tr>
<tr>
<td>AJ Administration of Justice</td>
<td>54%</td>
<td>$7,449</td>
</tr>
<tr>
<td>AMT2 Automotive Technology</td>
<td>86%</td>
<td>$9,033</td>
</tr>
<tr>
<td>EIMT Electrical Install/Maint Tech</td>
<td>74%</td>
<td>$7,758</td>
</tr>
<tr>
<td>OESM Occupational Envir Safety Mgt</td>
<td>63%</td>
<td>$11,735</td>
</tr>
<tr>
<td>WELD Welding Technology</td>
<td>61%</td>
<td>$8,493</td>
</tr>
</tbody>
</table>
Licensure Data Source

Unique aspects of licensure

(1) Search for individual by name on the Department of Commerce & Consumer Affairs (DCCA) website

http://cca.hawaii.gov/pvl/
(2) Use the Board meeting minutes published on the DCCA website to look for individuals by name.
Limitations of Licensure Data

DCCA website:

- Only includes names of individuals who passed exams
  - No information about those who attempted but did not pass
- Limited to name of individual
  - May miss graduates who changed their names
Lessons Learned

• Data on workforce and licensure outcomes needed to understand what’s happening to graduates
  – Not anecdotal

• Difficult getting the data needed
  – Work with partners to maximize use of existing resources

• Data received valuable
  – Limited data still provides additional information
New Data Uses and Considerations

Potential Use of Data

• Program and planning needs
  – Strategic planning
  – Program review
  – Supplement/validate existing data
  – Recruitment

• Student needs
  – Academic and student service supports

• Community/workforce needs
  – Workforce advisory boards

Considerations

• What does the new information tell us?
  – May require a shift in approach to how student outcomes are evaluated
  – Refine messaging about the value of a degree or program
New Data Request: Outreach & Strategic Planning

- How many apprenticeship students also enroll at Honolulu CC?
- How many incoming HIDOE students completed CTE programs in high school?
- How many incoming HIDOE students participate in apprenticeship (CTE at Honolulu CC)
- What CTE programs are most popular?
Honolulu Community College Students
Enrolled between Fall 2003 and Fall 2015 (N=40,292)

- Honolulu CC Credit Programs 24,786 (61.5%)
- Honolulu Apprenticeship (Non-Credit CTE) 12,346 (30.6%)
- Both 3,160 (7.8%)
HIDOE High School CTE Students

Completed a CTE Program in HIDOE between SY0708 and SY1314

- 20,059 HIDOE students completed a CTE sequence in high school
- 1,293 HIDOE CTE completers enrolled at Honolulu CC
Popular High School CTE Programs
Honolulu CC Students Who Completed CTE Programs in HIDOE (N=1,293), by High School CTE Program Pathway

- Industrial Engineering Technology: 53%
- Arts & Communication: 24%
- Public and Human Services: 11%
- Health Services: 9%
- Business: 5%
- Natural Resources: 4%
## Top 10 CTE Feeder High Schools

Honolulu CC Students Who Completed CTE Programs in HIDOE (N=1,293), by High School

<table>
<thead>
<tr>
<th>Count</th>
<th>Percent</th>
<th>Most Recent School</th>
</tr>
</thead>
<tbody>
<tr>
<td>220</td>
<td>17%</td>
<td>Farrington High School</td>
</tr>
<tr>
<td>149</td>
<td>12%</td>
<td>Campbell High School</td>
</tr>
<tr>
<td>142</td>
<td>11%</td>
<td>Mililani High School</td>
</tr>
<tr>
<td>107</td>
<td>8%</td>
<td>Waipahu High School</td>
</tr>
<tr>
<td>67</td>
<td>5%</td>
<td>Kapolei High School</td>
</tr>
<tr>
<td>61</td>
<td>5%</td>
<td>Waianae High School</td>
</tr>
<tr>
<td>57</td>
<td>4%</td>
<td>McKinley High School</td>
</tr>
<tr>
<td>56</td>
<td>4%</td>
<td>Castle High School</td>
</tr>
<tr>
<td>54</td>
<td>4%</td>
<td>Kailua High School</td>
</tr>
<tr>
<td>42</td>
<td>3%</td>
<td>Moanalua High School</td>
</tr>
</tbody>
</table>
Popular High School CTE Programs from Top 10 CTE Feeder High Schools

- Most are Industrial Engineering Technology
- Examples:
  - Building and Construction
  - Electrical Installation
  - Automotive Technology
  - Designed Environment
  - Metal Working Technology

<table>
<thead>
<tr>
<th>School</th>
<th>CTE Pathway</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waipahu HS</td>
<td>Industrial Engineering Technology</td>
<td>83%</td>
</tr>
<tr>
<td>Kailua HS</td>
<td>Industrial Engineering Technology</td>
<td>65%</td>
</tr>
<tr>
<td>Waianae HS</td>
<td>Industrial Engineering Technology</td>
<td>62%</td>
</tr>
<tr>
<td>McKinley HS</td>
<td>Industrial Engineering Technology</td>
<td>60%</td>
</tr>
<tr>
<td>Mililani HS</td>
<td>Industrial Engineering Technology</td>
<td>56%</td>
</tr>
<tr>
<td>Campbell HS</td>
<td>Industrial Engineering Technology</td>
<td>55%</td>
</tr>
<tr>
<td>Castle HS</td>
<td>Industrial Engineering Technology</td>
<td>55%</td>
</tr>
<tr>
<td>Farrington HS</td>
<td>Industrial Engineering Technology</td>
<td>41%</td>
</tr>
<tr>
<td>Kapolei HS</td>
<td>Industrial Engineering Technology</td>
<td>40%</td>
</tr>
<tr>
<td>Moanalua HS</td>
<td>Arts &amp; Communication</td>
<td>48%</td>
</tr>
</tbody>
</table>
Honolulu Apprenticeship Students from HIDOE

HIDOE Graduates (Class of 2001+) Who Enrolled in Honolulu CC Apprenticeship, Fall 2003+ (N=3,517), by HIDOE School

- 163,762 HIDOE Grads between 2001 and 2015
- 3,517 HIDOE Grads enrolled in HCC Apprenticeship from Fall 2003 to Spring 2016
- Top ten high schools listed

<table>
<thead>
<tr>
<th>School</th>
<th>Count</th>
<th>Percent</th>
<th>Graduated High School</th>
</tr>
</thead>
<tbody>
<tr>
<td>Campbell High School</td>
<td>336</td>
<td>10%</td>
<td></td>
</tr>
<tr>
<td>Waipahu High School</td>
<td>304</td>
<td>9%</td>
<td></td>
</tr>
<tr>
<td>Waianae High School</td>
<td>285</td>
<td>8%</td>
<td></td>
</tr>
<tr>
<td>Mililani High School</td>
<td>242</td>
<td>7%</td>
<td></td>
</tr>
<tr>
<td>Farrington High School</td>
<td>233</td>
<td>7%</td>
<td></td>
</tr>
<tr>
<td>Castle High School</td>
<td>233</td>
<td>7%</td>
<td></td>
</tr>
<tr>
<td>Pearl City High School</td>
<td>202</td>
<td>6%</td>
<td></td>
</tr>
<tr>
<td>Kapolei High School</td>
<td>183</td>
<td>5%</td>
<td></td>
</tr>
<tr>
<td>Leilehua High School</td>
<td>167</td>
<td>5%</td>
<td></td>
</tr>
<tr>
<td>Moanalua High School</td>
<td>141</td>
<td>4%</td>
<td></td>
</tr>
</tbody>
</table>
Top 10 Apprenticeship Programs for HIDOE Grads

HIDOE Graduates (Class of 2001+) Who Enrolled in Honolulu CC Apprenticeship, Fall 2003+ (N=3,517), by Program

- Carpenter: 27%
- Drywall: 10%
- Constr Craft Laborer: 8%
- Painter: 7%
- Plumber: 6%
- Electrician 1186: 5%
- Sheet Metal Worker: 5%
- ABC Electrician: 4%
- Refrigeration & Air Cond: 4%
- Taper: 3%
Thank You

QUESTIONS?

www.honolulu.hawaii.edu
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www.hawaiidxp.org

www.honolulu.hawaii.edu
Hawaiʻi DXP Request Form

• [http://hawaiidxp.org/#/resources/index.html](http://hawaiidxp.org/#/resources/index.html)

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