Minnesota

DEPARTMENT OF EMPLOYMENT AND ECONOMIC DEVELOPMENT

How to use the College Major to Industry and other DEED tools to help customers navigate postsecondary training options

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Plan for today

- Introduction:
 - What is a training credential?
 - What is a field of study?
- Overview of three online tools developed by DEED to answer key questions to help your clients
- Q&A

How are credentials defined? Credit versus non-credit

For-credit postsecondary programs lead to the following academic awards:

Sub-bachelor programs less than 1 academic year (1-29 credits)

Sub-bachelor programs at least 1, but less than 2 academic years (30-59 credits)

Sub-bachelor programs at least 2, but less than 4 academic years (60 credits or more)

Associate's Degree

Bachelor's Degree

Post-baccalaureate Certificate

Master's Degree

Post-Master's Certificate

Doctor's Degree



Currently included in DEED'S tools

Non-credit programs

- Lead to a certificate of completion without earning academic credit
- Short-term (24 weeks or less) aimed at gaining specialized skills.
 Example: American Red Cross Nurse Assistant training

Data collection is under way, in partnership with OHE, for ETPL (Eligible Training Providers List) reporting under WIOA



To be added to DEED'S tools



The credentialling puzzle

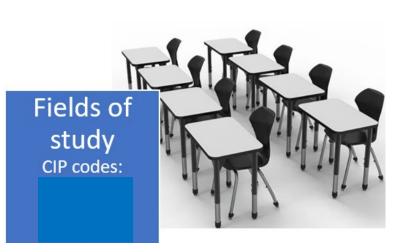
Participants'
outcomes
already
accessible
on DEED's site



Participants'
outcomes
soon to be
added to
DEED's site

Still missing: apprenticeships data; occupational licensing data

Paths from educational programs to careers and industries







Occupations SOC codes

(MEASURABLE)







CIP: Classification of Instructional Programs

SOC: Standard Occupational Classification

NAICS: North American Industry Classification System







Industries NAICS codes

What a **business** does



Multiple definitions of successful outcome for training programs = three DEED tools

Graduate Employment Outcomes (GEO):

Earnings over time by school and program at the 4-digit CIP level (250 fields of study

What are the typical hourly earnings from 2 to 7 years after completion? What are the probabilities of finding a job in a given industry or region?

College Major To Industry of Employment:

Hourly wages by program at the 6-digit CIP level (405 fields of study)

What types of businesses employ workers with certain credentials? How do wages vary by industry?

Occupations In Demand (OID):

No educational program outcomes; inventory of training programs currently offered in each region

What training is typically required and which training programs exist in my region? Is there demand for my career of interest?



How are fields of study and majors defined?

CIP (Classification of Instructional Programs)

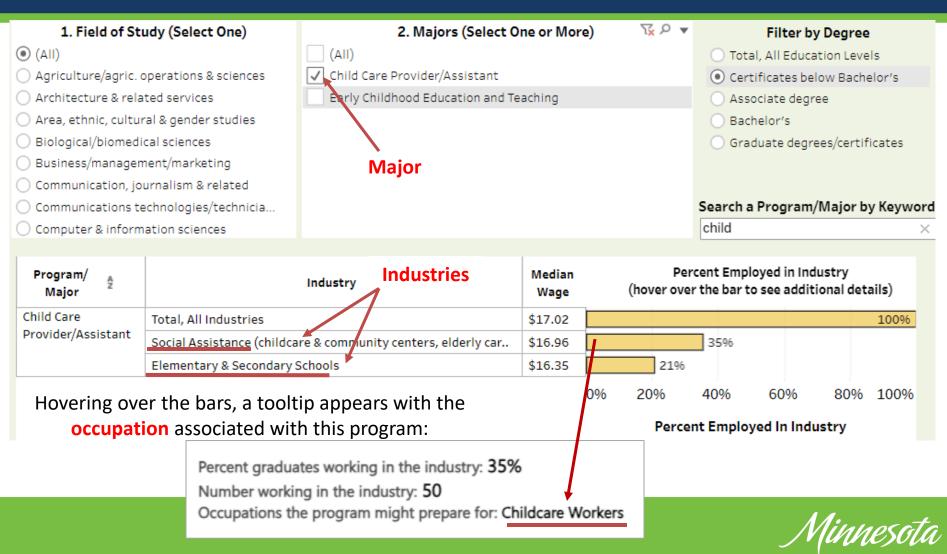
Level of detail	Hierarchy of Program Topics (example within Construction)
two-digit roll-up	46 CONSTRUCTION
four-digit rollup	46.03 Electrical and Power Transmission Installers 46.04 Construction Finishing, Management, and Inspection 46.05 Plumbing and Related Water Supply Services
six-digit	46.0302) Electrician 46.0303) Lineworker
(sometimes	46.0408) Painting/Painter
referred to as	46.0410) Roofer
majors)	46.0412) Building/Construction Site Management
	46.0413) Carpet, Floor, and Tile Worker
	46.0502) Pipefitting/Pipefitter and Sprinkler Fitter
	46.0503) Plumbing Technology/Plumber

Source: National Center for Education Statistics (NCES)

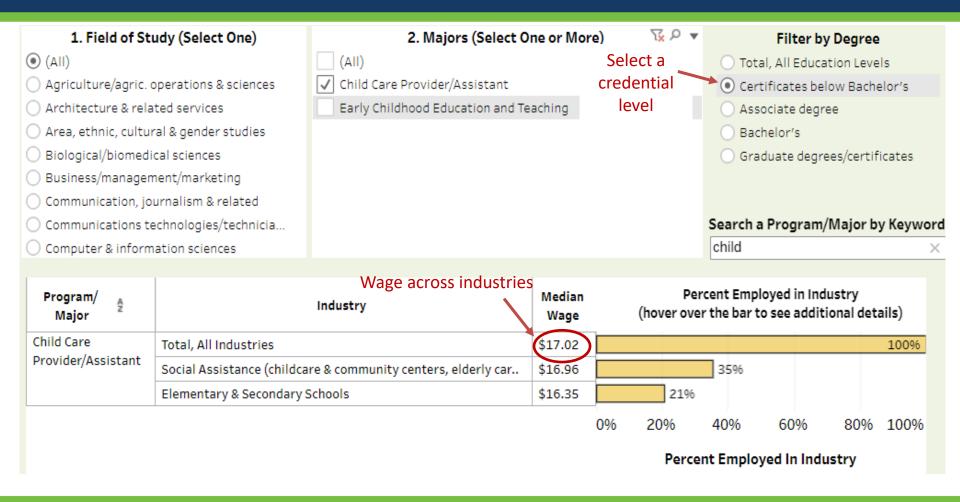
https://nces.ed.gov/ipeds/cipcode/cipdetail.aspx?y=55&cip=46



College Major to Industry of Employment tool: Connecting Majors to Industries and Occupations



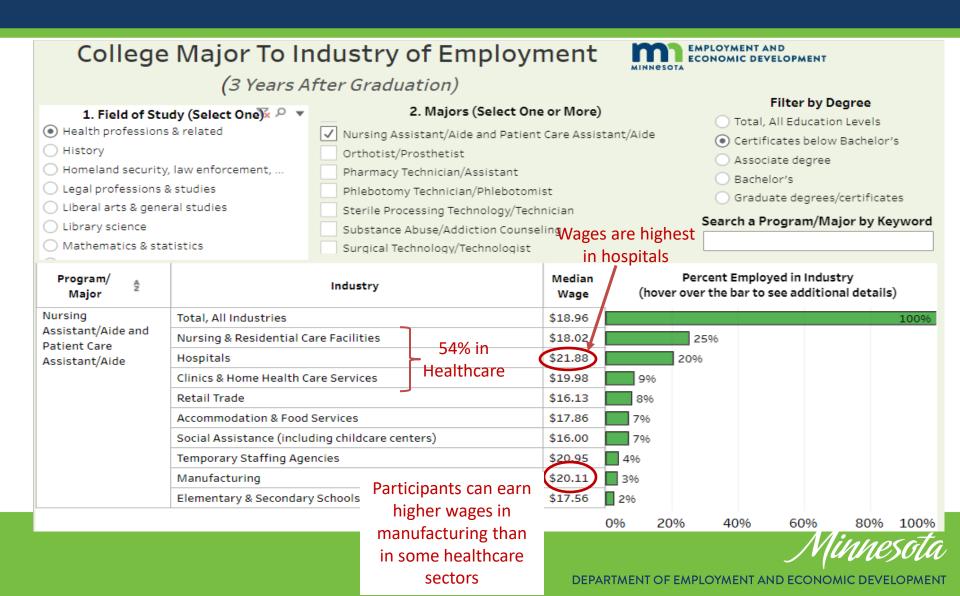
Example: Certificate programs in Child Care Provider



Program's strengths and weaknesses

- Overall earnings post-graduation (entry-level) are below the family sustaining wage;
- Employment predominantly in related industries (social assistance and elementary schools), indicating good alignment;
- Wages in related industries are low, indicating low rewards for postsecondary credentials

Certificate programs in Nursing Assistant/PCA



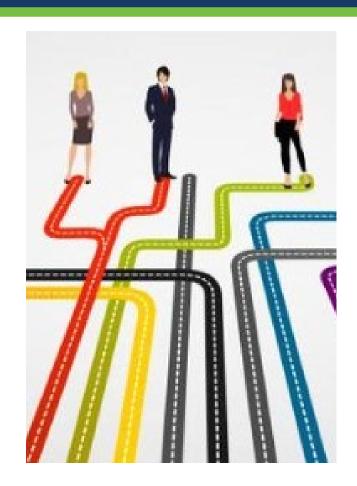
Program's strengths and weaknesses

- Overall earnings post-graduation are below the family sustaining wage;
- Employment predominantly in related industries (healthcare);
- Wages are highest in hospitals, suggesting career ladders and/or opportunities for further training potentially leading to an LPN license;
- Pipeline is partially leaking due to low wages (competition for labor from outside healthcare)



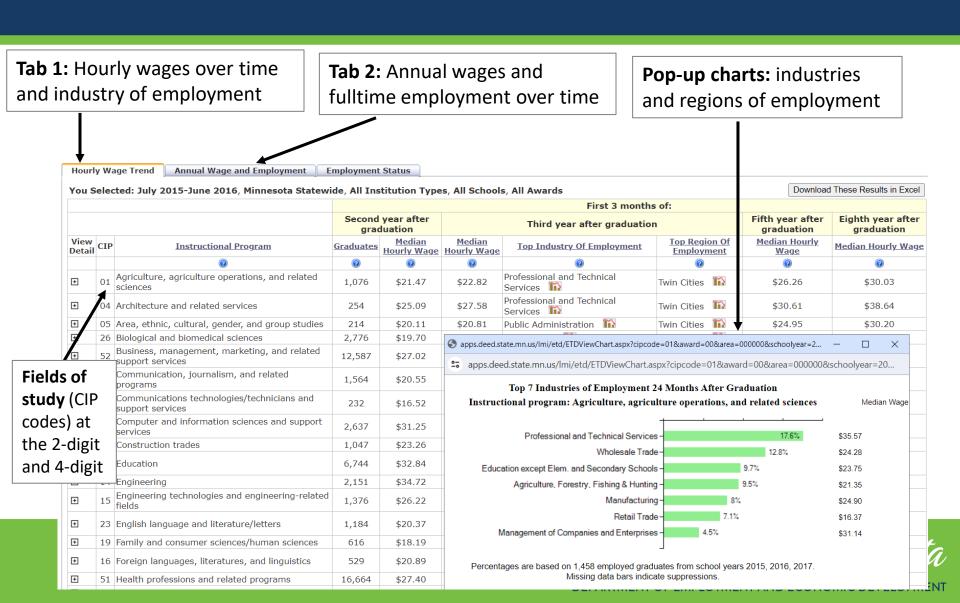
Related employment: How can we tell?

- Does the program improve my chances of finding a job in the industries for which I prepared?
 - Are nurses finding jobs in Healthcare? Are teachers finding jobs in schools?
- Are there differences in wages earned by industry?
 - Wages by industry are a good gauge for whether graduates enter related careers.
 They can also signal the presence of promising career pathways in some industries



Graduate Employment Outcomes (GEO) tool

http://mn.gov/deed/geo



What if I want to search for a training program by occupation?



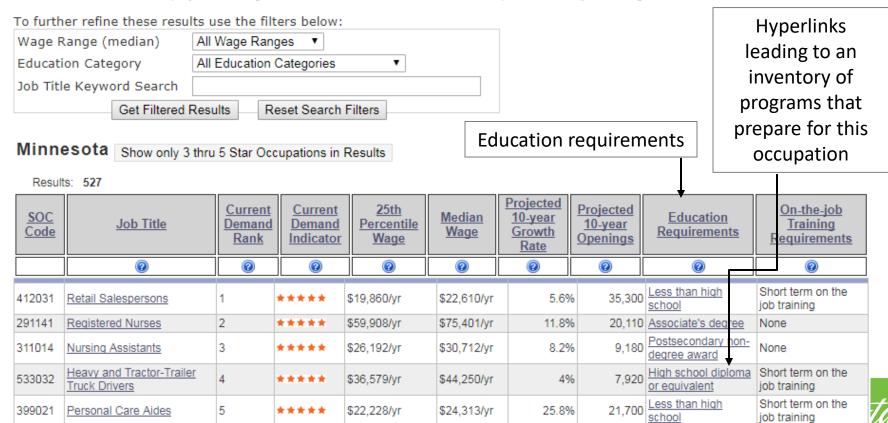


Occupations in Demand (OID) tool

Occupations In Demand

Start New Search | Export 3 thru 5 star results | Export 1 thru 5 star results

This is a ranking of occupations in demand in the selected region. Long-term growth rate and projections are included for comparison but may differ from current demand because of projected changes in the labor market. Click Education Requirements for job training information.



Training program pages in the OID tool

https://apps.deed.state.mn.us/lmi/oid/CIP SchoolDetail.aspx?id=533032&geog=2701000000

Below are schools offering programs related to Heavy and Tractor-Trailer Truck Drivers

Click a column title to sort information by that title.

Click the underlined school name to enter the school's official web site.

CIP code (useful to look up outcomes in the GFO and College Major to Industry tools)

Award Program CIP Code and Title **School Name** Location **Program Title** Levels <u>Length</u> Offered 490205 Truck and Bus 1 term (15 160 Driving Driver/Commercial Eagan - MN Class A CDL Training WICA Non-Credit weeks) or Academy Vehicle Operator and less Instructor. 490205 Truck and Bus term (15 160 Driving St. Cloud -Driver/Commercial Class A CDL Training WICA Non-Credit weeks) c Academy MN Vehicle Operator and less Instructor. 490205 Truck and Bus 1 term (15 160 Driving Rochester -Class A CDL Training WICA Driver/Commercial Non-Credit weeks) or MN Academy Vehicle Operator and less Instructor 490205 Truck and Bus 1 term (15 160 Driving Driver/Commercial Eagan - MN Class A CDL Training WICA Non-Credit weeks) or Academy Vehicle Operator and less Instructor. 490205 Truck and Bus 1 term (15 160 Driving St. Cloud -Driver/Commercial Class A CDL Training WICA Non-Credit weeks) or Academy MN Vehicle Operator and Instructor. 490205 Truck and Bus 1 term (15 160 Driving Rochester -Class A CDL Training WIDA Non-Credit Driver/Commercial weeks) or MN Academy Vehicle Operator and less Instructor. 490205 Alexandria Sub-Truck and Bus ore than 1 Technical & Alexandria bachelor's Driver/Commercial Professional Truck Driver WIO term but less Community award 1-29 Vehicle Operator and than 1 year College credits Instructor. 490205 Alexandria Sub-Truck and Bus. More than 1 Technical & Alexandria -Professional Truck Driver - Bbachelor's Driver/Commercial term but less CDL WIGA award 1-29 Community MN Vehicle Operator and than 1 year College credits Instructor.

Detailed title of the program as advertised in schools' catalogues

Both credit and non-credit



Summary of tools and related research

College Major to Industry of Employment (CMI) https://mn.gov/deed/data/data-tools/college-major-tool/

Graduate Employment Outcomes (GEO) https://apps.deed.state.mn.us/lmi/etd/Results.aspx

Occupations In Demand (OID)
https://apps.deed.state.mn.us/lmi/oid/Results 9Columns.aspx

For guidance on using and interpreting the CMI tool:

Leibert, A., From College Major to Industry of Employment https://mn.gov/deed/newscenter/publications/trends/march-2024/college-major.jsp

Useful study on industry pathways:

Leibert, A., *Geographic and Industry Mobility of New Nursing Grads*https://mn.gov/deed/newscenter/publications/review/january-2014/nursing-grads.jsp



Thank you!

Questions? Suggestions?

Contact me: Alessia.Leibert@state.mn.us

