

Logistics Engineering Technician – Work Study

Educator Bus Tour Survey Results

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November, 2017

This material is based on work supported by the National Science Foundation grant #1700520. The opinions, findings, conclusions, or recommendations expressed in this material are those of the authors and do not reflect the position or policies of the National Science Foundation.

Table of Contents

| | |
|---|----|
| Background | 3 |
| Findings..... | 4 |
| Appendices..... | 7 |
| Appendix A: <i>2017 Educator Bus Tour</i> - Invitation..... | 7 |
| Appendix B: <i>2017 Educator Bus Tour</i> - Agenda..... | 9 |
| Appendix C: <i>2017 Educator Bus Tour</i> - Survey..... | 10 |

Background

Columbus State facilitated a full-day interactive bus tour on October 31, 2017 to provide an opportunity for decision-makers and influencers from regional high schools to learn more about the growing fields of advanced manufacturing, cybersecurity, logistics, and alternative energy automotive service/repair. Participants received tours at Cardinal Health, City of Dublin Fleet Management, and Honda Manufacturing and engaged in discussions with industry representatives at these facilities. In all, 25 individuals including, principals, assistant principals, directors, coordinators, teachers, career specialists and others (Table 1) representing 14 school districts in the central Ohio region (Table 2) participated in the tour. A copy of the invitation can be found in Appendix A.

| | |
|-------------------------------|----|
| Principal/Assistant Principal | 10 |
| Director | 4 |
| Coordinator | 3 |
| Teacher | 3 |
| Career Specialist | 2 |
| Superintendent | 1 |
| Academic Officer | 1 |
| Guidance Counselor | 1 |

Table 1. Roles represented by the 25 participants

| | |
|---|--|
| Bexley City Schools | Licking Heights Local Schools |
| Columbus City Schools | Metro Schools |
| Concept School District | New Albany-Plain Local School District |
| Dublin City Schools | Reynoldsburg City Schools |
| Eastland-Fairfield Career & Technical Schools | South-Western City Schools |
| Fairbanks Local Schools | Triad Community Unit School District 2 |
| Gahanna Jefferson Public Schools | Westerville City Schools |

Table 2. Districts represented by the 25 participants

This brief report summarizes the results of an evaluation survey completed by 23 (or 92%) of the 25 participants at the end of the day. A copy of the day’s agenda is included in Appendix B and the evaluation survey is provided in Appendix C.

Findings

The bus tour increased participant awareness regarding the level of employer demand, the availability of 2-year degree programs, and the starting pay in these fields (Figure 1). Additionally, the level of industry demand and need was the theme of nearly every response to an open-ended question asking participants to identify the fact/trend that most surprised them (Table 3).

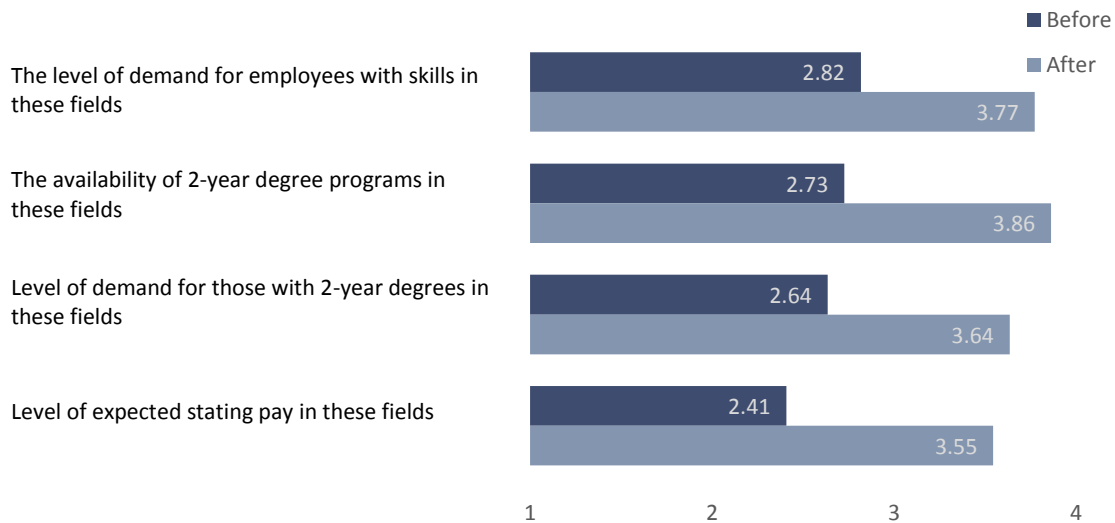


Figure 1. Mean awareness ratings based on self-perceived levels before, and then after, the bus tour. (Scale is from 1=Not aware to 4 = Fully aware; n=22)

| Theme | Comment |
|--------------------------------------|--|
| Level of industry need/demand | <ul style="list-style-type: none"> Actual gap in jobs/workforce Large number of job openings across all industries Logistics job openings Opportunity in Logistics field. The vast gap between job growth & population growth The amount of need in the area The demand for 2-year degree holders |
| Other | <ul style="list-style-type: none"> Number of electric cars on the horizon in Columbus |

Table 3. Open-ended responses to the question “What current employment fact/trend was most surprising to you?”

Most participants indicated that they were “certain” or “very likely” to share what they had learned with staff, teachers, students, and parents (Figure 2).

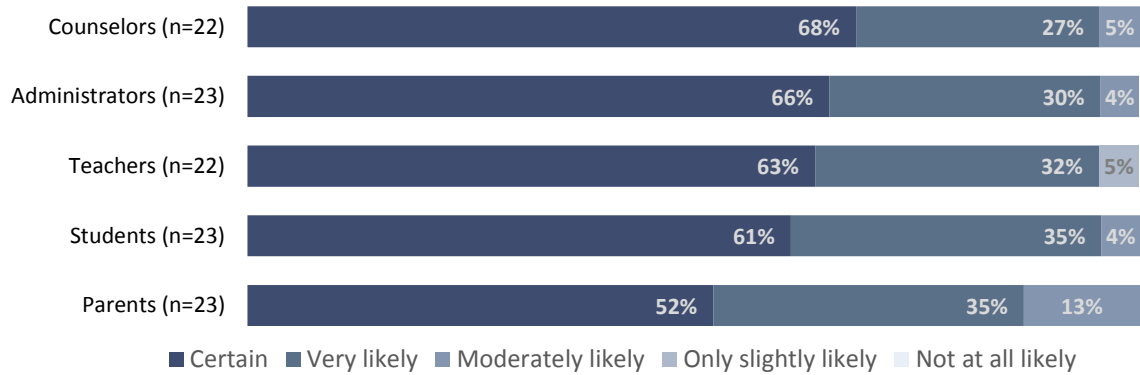


Figure 2. Response frequencies to the question, “How likely are you to share what you learned today with the following audience?”

With regards to the various agenda activities (Figure 3), the check-in process, initial debriefing, and overall flow of activities were rated as “very effective” by most participants. The individual bus tour activities were rated as either “very effective” or “moderately effective” by most participants. There was, however, some variation in ratings among the activities; the Honda tour was rated as the most effective while the Cardinal Health and City of Dublin Fleet Facility activities received mixed ratings.

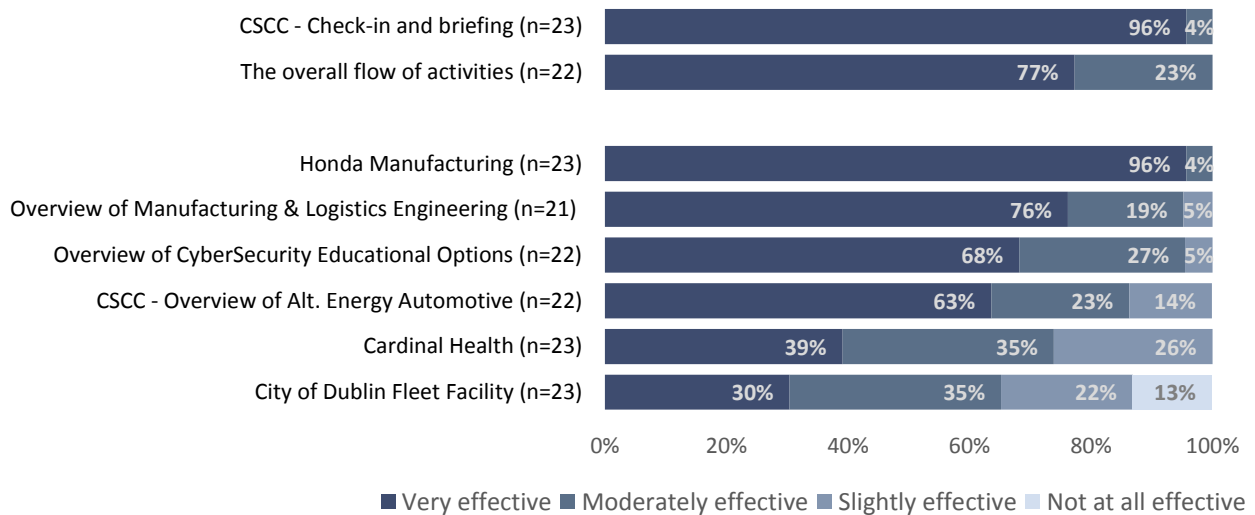


Figure 3. Response frequencies to the question, “Overall, how would you rate the effectiveness of each aspect of the day?”

In terms of ratings pertaining to the goals of the bus tour (Figure 4), most respondents regarded it as being “very” or “moderately” effective. The goal of fostering connections between educators and local businesses received a few low ratings but this was certainly the most challenging of the goals for the bus tour. Several improvement suggestions in Table 4 point to opportunities for meeting this challenge even more effectively for future bus tours.

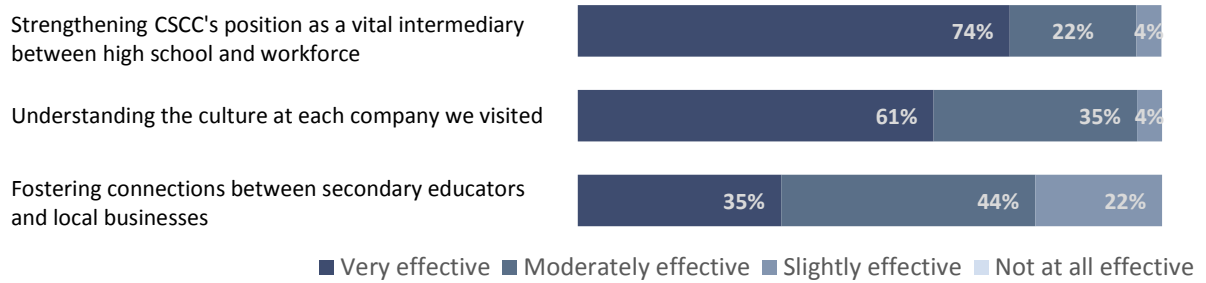


Figure 4. Response frequencies to the question, “Overall, how would you rate the effectiveness of each aspect of the day?” (n=23)

| Theme | Comment |
|---|--|
| Would like more information | <ul style="list-style-type: none"> • I am still not sure WHO to contact at each company to form the relationship with our high school. • Ensure each aspect focusses on factors, strategies, skill that can be implemented at the building level. • More info about providing opportunities for high school students (how do they get experience opportunities). |
| More chances to interact and discuss | <ul style="list-style-type: none"> • Add time for schools to brainstorm implementation ideas/share. • If teachers are brought to participate there should be more emphasis on partnerships and opportunities for K-12 students. • Greater discussion of what educators should do to prepare kids for industry. |
| Site Specific | <ul style="list-style-type: none"> • Make City of Dublin fleet more focused on audience - give tour of facility. • Cardinal Health seems prime to start apprenticeships/ internships. Perhaps a greater focus on points of specific collaboration with k-12. • Making sure partners are prepared for the audience (What to talk about with who). • The "Loop" around Cardinal Health lobby was not useful - Would like more inside view of company. • Time spent at Cardinal was OK, but tour was time (not well) spent. • I didn't feel that Dublin Maintenance had entry level positions for HS partnerships. • Tour was productive at MFG company i.e. , Worthington or Superior tool. • Though beneficial learning about Dublin it was not as beneficial as hoped. Learning that entry level positions require 5-7 years of experience left me wondering how this could connect with HS. |
| Misc. | <ul style="list-style-type: none"> • Bus information sessions hard to hear. • Turn on the heat! • Interactive things on seeing hands-on. • Add hands on experiences for participants. • The bus presentations would be fine, but the audio system should be enhanced. |

Table 4. Open-ended responses to the question “What are the 1 or 2 most impactful changes or improvements you would recommend?”

Appendix A: 2017 Educator Bus Tour - Invitation

COLUMBUS STATE
COMMUNITY COLLEGE

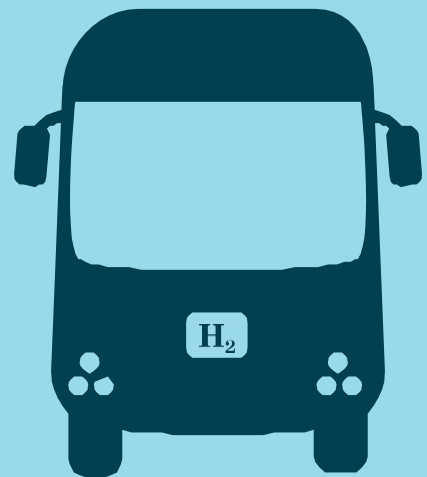
You're invited to the

2017 Educator Bus Tour

Join Columbus State on this interactive tour to meet with local employers and learn how you can help students access high-paying careers in STEM fields.

Tuesday, October 31

[7:30 a.m. – 2:15 p.m.]



September 1, 2017

Name
Title
School
Address
City, State Zip

Dear (First name):

Welcome back! I hope that the beginning of your school year at <<SCHOOL>> is off to a smooth start.

Columbus State Community College has a proud tradition of working closely with local employers and industries. The skills needed by the Central Ohio region's workforce are changing more rapidly than ever. Through Career Pathways and Work-based Learning initiatives, Columbus State has strengthened its commitment to serving the talent needs of local industry and helping students obtain high-wage careers.

One way that Columbus State is strengthening relationships with local employers is through our work with the National Science Foundation (NSF). We currently lead eight separate National Science Foundation awards totaling more than \$5.6 million, more than any other community college in the nation. Each of our NSF projects integrates employer partnerships to develop pathways for students into high-wage, high-demand careers. Four of our most mature projects are in the areas of advanced manufacturing, alternative energy automotive, cybersecurity and logistics engineering.

I invite you to join us at our **2017 Educator Bus Tour** on Tuesday, October 31, from [X-X p.m.] to learn more about ways your school can partner with industry and help your students access high-demand careers. Leaving from the Columbus State Dublin Regional Learning Center, a hydrogen-fueled bus will take you to three of our valued employer partner locations, where you will have the opportunity to experience the work environment and speak directly with industry experts. Featured partners will include:

- Honda Manufacturing
- Cardinal Health
- City of Dublin Fleet Maintenance Facility

There are a limited number of spaces available on the bus, so please sign up now to reserve a spot. Registration ends October 10. Please RSVP (confirmations and regrets) at csc.edu/RSVP and feel free to invite a guest to join you.

Sincerely,

Angelo J. Frole

Dean, Business and Engineering Technologies

Appendix B : 2017 Educator Bus Tour - Agenda



2017 Educator Bus Tour

Tuesday, October 31, 2017

Columbus State – Dublin Regional Learning Center

| Time | Activity | Speaker |
|-------------|--|--|
| 7:30am | Registration & Networking | |
| 7:45am | Introduction & Agenda Preview | Todd Warner Scott Wegeng |
| 8:00am | Columbus Region Workforce Trends | Tim Harman, Columbus 2020 |
| 8:30am | Travel to Cardinal Health | Larry McWherter |
| 8:45am | Tour of Cardinal Health and Company Speakers | Cardinal Health Representatives |
| 10:15am | Travel to City of Dublin Fleet Facility | Steve Levin |
| 10:30am | Tour of City of Dublin Fleet Facility and Company Speakers | City of Dublin Fleet Representatives |
| 11:30am | Travel to Honda | |
| 12:00pm | Lunch and Manufacturing/Logistics Overview | Honda Representatives Mark Gerko Jeremy Banta |
| 12:50pm | Tour of Honda Marysville Auto Plant | Honda Representatives |
| 1:45pm | Debrief | Honda Representatives |
| 2:15pm | Travel to CSCC Dublin | |

BUSINESS PROGRAMS & ENGINEERING TECHNOLOGIES

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Appendix C: 2017- Educator Bus Tour | Evaluation

| BEFORE THE TOUR | | | | AFTER THE TOUR | | | |
|--|----------------|------------------|-------------|----------------|----------------|------------------|-------------|
| Not Aware | Slightly aware | Moderately aware | Fully aware | Not Aware | Slightly aware | Moderately aware | Fully aware |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| What current employment fact/trend was most surprising to you? (Could be one from above or something else) | | | | | | | |

How likely are you to share what you learned today with the following audiences?

| | Not at all likely | Only slightly likely | Moderately likely | Very likely | Certain |
|----------------|-------------------|----------------------|-------------------|-------------|---------|
| Teachers | | | | | |
| Administrators | | | | | |
| Counselors | | | | | |
| Students | | | | | |
| Parents | | | | | |

Overall, how would you rate the effectiveness of each aspect of the day below?

| | Not at all effective | Slightly effective | Moderately effective | Very effective |
|--|---|--------------------|----------------------|----------------|
| Agenda Activities | CSCC - Check-in and briefing | | | |
| | Travel to Cardinal Health - Overview of CyberSecurity Educational Options | | | |
| | Cardinal Health | | | |
| | CSCC - Overview of Alt. Energy Automotive | | | |
| | City of Dublin Fleet Facility | | | |
| | CSCC - Overview of Manufacturing & Logistics Engineering | | | |
| | Honda Manufacturing | | | |
| Event Goals | The overall flow of activities | | | |
| | Understanding the culture at each company we visited | | | |
| | Fostering connections between secondary educators and local businesses | | | |
| | Strengthening Columbus State's position as a vital intermediary between high school and workforce | | | |
| What are the 1 or 2 most impactful changes/improvements you would recommend? | | | | |