“BUSINESS AND EDUCATION PARTNERSHIP”

POWER IN PARTNERSHIPS

George Arrants
Automotive Education Consultant
Specializing in NATEF/ASE Accreditation

CTE Leadership Academy

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Meetings?
Insurance?
You wouldn’t take the chance.

✓ Auto
✓ Home
✓ Life
✓ Health
✓ Job ???
Employment Picture

Gross domestic product (GDP)
Current & future workforce (Labor Shortage)
H-1B immigration visas
Structural Unemployment
Bureau of Labor Statistics
Underemployed?
Civilian Labor Force by Generation

13%  3%  48%  37%  22%  22%  16%  38%  0%  10%  20%  30%  40%  50%  60%
2000  2010

Traditionalist (1900-1945)
Baby Boomer (1946-1964)
Generation X (1965-1975)
Generation Y (1976-1994)

Source: Bureau of Labor Statistics
Expected Labor Force and Labor Demand

Source: Employment Policy Foundation analysis and projections of Census / BLS and BEA data
Table 1.7 Occupational employment and job openings data, projected 2014 and projected 2024, and worker characteristics, 2014

(Numbers in thousands)

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Automotive technicians and repairers</td>
<td></td>
<td></td>
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<tr>
<td>49-3020</td>
<td>909.0</td>
<td>963.3</td>
<td>54.3</td>
<td>6.0</td>
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<td>289.4</td>
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<td>Automotive body and related repairers</td>
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<td>49-3021</td>
<td>149.7</td>
<td>163.5</td>
<td>13.7</td>
<td>9.2</td>
<td>6.8</td>
<td>48.1</td>
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<td>Automotive glass installers and repairers</td>
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<td>49-3022</td>
<td>19.3</td>
<td>20.8</td>
<td>1.5</td>
<td>7.8</td>
<td>17.4</td>
<td>4.1</td>
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<td>Automotive service technicians and mechanics</td>
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<tr>
<td>49-3023</td>
<td>739.9</td>
<td>779.0</td>
<td>39.1</td>
<td>5.3</td>
<td>13.4</td>
<td>237.2</td>
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<tr>
<td>Bus and truck mechanics and diesel engine specialists</td>
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<td>49-3031</td>
<td>263.9</td>
<td>295.5</td>
<td>31.6</td>
<td>12.0</td>
<td>3.8</td>
<td>76.9</td>
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<tr>
<td>Heavy vehicle and mobile equipment service technicians and mechanics</td>
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<td>49-3040</td>
<td>186.5</td>
<td>196.5</td>
<td>10.1</td>
<td>5.4</td>
<td>3.1</td>
<td>54.1</td>
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<td>Farm equipment mechanics and service technicians</td>
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<td>49-3041</td>
<td>40.3</td>
<td>43.2</td>
<td>2.9</td>
<td>7.2</td>
<td>3.2</td>
<td>12.4</td>
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<td>Mobile heavy equipment mechanics, except engines</td>
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<td>49-3042</td>
<td>124.7</td>
<td>131.3</td>
<td>6.6</td>
<td>5.3</td>
<td>3.0</td>
<td>36.0</td>
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## Employment by summary education and training assignment

### 2012 and projected 2022


**Employment by summary education and training assignment, 2012 and projected 2022**

(Numbers in thousands)

<table>
<thead>
<tr>
<th>Education, work experience, and on-the-job training</th>
<th>Employment</th>
<th>Change</th>
<th>Total job openings due to growth and replacement needs, 2012-22</th>
<th>Median annual wage, 2012</th>
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<tbody>
<tr>
<td></td>
<td>2012</td>
<td>2022</td>
<td>2012</td>
<td>2022</td>
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<tr>
<td>Typical entry-level education</td>
<td></td>
<td></td>
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<tr>
<td>Total, all occupations</td>
<td>145,355.8</td>
<td>160,983.7</td>
<td>100.0</td>
<td>100.0</td>
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<tr>
<td>Doctoral or professional degree</td>
<td>4,002.4</td>
<td>4,640.8</td>
<td>2.8</td>
<td>2.9</td>
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<tr>
<td>Master's degree</td>
<td>2,432.2</td>
<td>2,880.7</td>
<td>1.7</td>
<td>1.8</td>
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<tr>
<td>Bachelor's degree</td>
<td>26,033.0</td>
<td>29,176.7</td>
<td>17.9</td>
<td>18.1</td>
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<tr>
<td>Associate's degree</td>
<td>5,954.9</td>
<td>7,000.9</td>
<td>4.1</td>
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<td>Postsecondary non-degree award</td>
<td>8,554.2</td>
<td>9,891.2</td>
<td>5.9</td>
<td>6.1</td>
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<tr>
<td>Some college, no degree</td>
<td>1,987.2</td>
<td>2,212.2</td>
<td>1.4</td>
<td>1.4</td>
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<tr>
<td>High school diploma or equivalent</td>
<td>58,264.4</td>
<td>62,895.2</td>
<td>40.1</td>
<td>39.1</td>
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<tr>
<td>Less than high school</td>
<td>38,127.6</td>
<td>42,286.0</td>
<td>26.2</td>
<td>26.3</td>
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</table>
Business and Education have been islands unto themselves.

Results have not always been as good as they could be.

In this century our success will, to a great extent, depend on how well we develop these partnerships.
Advisory Committees
Business & Education Councils

- Types of Advisory committees
- Who should be a member
- Recruitment of members
- The purpose of the proposed committee
- Time, location & agenda of the committee
- Follow-up of Advisory Committee minutes
What Role and/or Value Does The Advisory Committee Provide for Your Program?
Types of Advisory committees

Career & Technology committees

Shared Committees

 ✓ Program specific Committees

Advisory committee Handbook

Who should be a member

✓ Employers
✓ HR Personnel
✓ Staffing Agencies
✓ Technicians/related occupation
✓ Parents (current & former students)
✓ Suppliers
✓ Manufacturers
✓ Instructors (secondary & post-secondary)
✓ Former Students
✓ Administration
Recruitment of members

✓ U.S. Mail (poor response)
✓ Visit to employers
✓ Phone
✓ E-mail

✓ Determine a chair person
✓ Outlook calendar to schedule meetings

* Include agenda
* Past meeting minutes
* Location
* Additional information
What's in it for me?

Industry Advice
Technology Changes
Employment Opportunities
Program improvements
Certification Program/industry
Perkins Funding
Review graduate follow-up
Time & date (What is best for industry)
- Mornings (before school)
- Lunch (Best for Industry)
- Evening (Not always best)

Schedule meetings 45 days out
- 1-1-1 (1 Month E-mail and/or text - 1 Week Email/Phone - 1 Day Phone)

Location
- Program Lab/shop (always first meeting)
- Conference room
- Local businesses

Agenda
- Time allocation (Don’t run over)
- Curriculum (industry recommendations)
- Program Facility Evaluation
- Barriers to entry
Sample Meeting Agenda

Business/Education Advisory Meeting Agenda

Welcome

Introductions

Discuss employer needs
   Skills required
   Credentials/certification
   Barriers to employment

Employment Potential/Staffing Needs

Facility Evaluation

Facility Recommendations

Review budget

Open Discussion

Set Next Meeting Date
Committee Chair Notes

Business & Education Advisory Meeting

Agenda

Welcome
Determine who will provide the welcome normally, a principal and/or committee chair

Introductions
Ask each person to introduce themselves including title and company

Discuss Employer Needs
Open discussion with employers to determine what they need and expect
  • Skills Required: Find out what they need and compare to what you are planning to teach
  • Possible Credentials/certification: Things employers are looking for and will make your students stand out on a resume
  • Barriers to entry (screening process): Will they require drug testing, background check, driver license and credit check and any other items that could stop your students from being employed.

Employment Potential/Staffing Needs
What is their current need and estimated need in the future?

Program Overview
The instructor should provide the committee with a program overview and measurable outcomes that the students will achieve.

Facility Evaluation (if Applicable)
If the program has a lab/shop area it is important for the committee to see what you have and more importantly what you don't have. Create a check sheet for the committee to use. Ask them to look for safety and environmental concerns and review the condition of all tools and equipment.

Facility Recommendations
Any and all ideas found by the committee should be noted in the minutes and discussed. If possible, determine when and how the concerned items will be addressed. Any items that require additional review would be reported back to the committee at a later date.

Budget
Provide the committee with an inventory of equipment, software, training material and all items the program already has. Ask the committee for advice and recommendation on what the program will need to meet the outlined and potential skills industry needs

Set date for next meeting
Sample Facility Evaluation

FACILITY EVALUATION CHECK LIST

SCHOOL NAME: ____________________________ Date: __/__/ __

HS ☐  ROP ☐  VOC ☐  JC ☐

SHOP TOUR

1. FIRE SAFETY
   
   Problem OK
   ☐ Are sufficient number of extinguishers (requires a minimum of 3)?
   ☐ Are they charged and properly tagged and are the inspections current?
   ☐ Are the exits properly marked?
   ☐ Easily accessible (nothing blocking the path or the floor below)?
   ☐ Highly noticeable (should be marked with red square behind Extinguisher)?

2. Eye Safety
   
   Problem OK
   ☐ Are they have eyewash?
   ☐ Is it easily accessible in an emergency?
   ☐ Does the eyewash have proper drainage?
   ☐ Is the eyewash highly visible?
   ☐ Do all the students have safety glasses?
   ☐ Are all the students wearing safety glasses?
   ☐ Are there extra safety glasses for visitors?
   ☐ Are there face shields and goggles?

3. General Shop and Equipment
   
   Problem OK
   ☐ Does all equipment have shields and guards?
   ☐ How do they store chemicals and cleaners?
   ☐ Fireproof cabinet?
   ☐ Air hoses in good condition? No hose clamps to hold fittings?
   ☐ Oxygen/acetylene bottles properly tied down?
   ☐ Ear protection?
   ☐ Safety posters?
   ☐ Floors clean?
   ☐ Do Yellow and Red lines mark the floor properly?
   ☐ Aisle and walkways clear and marked?
   ☐ Solvent tank or tanks in proper working order w/ a proper method of fluid disposal?
Business/Education Advisory Meeting Agenda

Welcome

Introductions

Review & approve minutes

Review curriculum
Highlight where employer needs are covered

Discussion any additional tasks
Are there tasks and/or outcomes

Update on facility corrections

Summarize student & graduate surveys

Discuss possible recommendations

Set date for next meeting
Sample Graduate Surveys

Automotive Technology
PROGRAM EVALUATION
Graduate Follow-up
(after graduation)

Name__________________________Today’s Date________________
Year Graduated from School_________
Place of Employment______________
Home Address_____________________
Email Address_____________________
Number of years employed as an automotive technician_________
Number of years in the Auto Tech program_________

If you are not employed in the automotive industry, please explain the reasons.

________________________________________________________________________

Please complete the following program evaluation form as to how well the courses prepared you for employment in the “real world”. Rate each item on the following five-point scale:

not at all __ 2 __ somewhat needs improvement __ 4 __ adequate __ 5 __ exceptional above average

Equipment
1. Tools and equipment were the same as those used in industry. 1 2 3 4 5
2. Tools and equipment were available to all students. 1 2 3 4 5
3. The quantity of tools and equipment were sufficient for effective instruction. 1 2 3 4 5
4. Manufacturer’s service information was available and utilized. 1 2 3 4 5

Suggestions for improvement in this area:

________________________________________________________________________

Pearland ISD Automotive Technology - Graduate Follow-up

Q1 Are you currently employed in the automotive industry or attending a college level automotive technology program?
Answered: 12  Skipped: 0

<table>
<thead>
<tr>
<th>Answer Choice</th>
<th>Response</th>
</tr>
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<tbody>
<tr>
<td>Yes</td>
<td>66.67%</td>
</tr>
<tr>
<td>No</td>
<td>33.33%</td>
</tr>
<tr>
<td>Total</td>
<td>12</td>
</tr>
</tbody>
</table>

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**Advisory Committee minutes & Follow-up**

**Taking minutes**
Ask someone to take minutes prior to meeting
Detailed minutes *(avoid bullet points)*
1. Recommendations
2. Discussions
3. Facility improvements
4. Concerns & corrections

Reference the person making the statement.

**Copies of minutes sent 2 weeks after to:**

All members
Campus Principal/Director
Career & Tech. Director
School Board Members
Superintendent Office
Dean
Department Chair
Provost Office
Four year College is not the only answer and may not be the best answer...

*Survey conducted by the Utility Business Education Coalition Inc.

Out of every 100 high school graduates:

70 enroll in college
42 return for their sophomore year
34 advance to their senior year
28 graduate in five years

only 14 employed in their chosen field
99.9% Efficiency

50 Newborn Babies Dropped at Birth by Doctors Everyday
One Hour of Unsafe Drinking Water Per Month
Two Unsafe Landings at O’Hare Airport Everyday
16,000 Lost Pieces of Mail Per Hour
20,000 Incorrect Drug Prescriptions Each Month
500 Incorrect Surgical Operations Performed Each Week
22,000 Checks Deducted From the Wrong Account Daily
Your Heart Fails to Beat 32,000 Times Each Year
Consultants

Highly paid and used by many

Governments
Military
Corporation
Small Businesses
Towns & Cities
Schools & Education
Non-profits
Others

Having an Advisory Committee is like having consultants and not receiving an invoice.
Why don’t Millennials eat Cereal?

Me: I didn't have to wash a bowl
Thank you

George Arrants

George@georgearrants.com