“BUSINESS AND EDUCATION PARTNERSHIP”

POWER IN PARTNERSHIPS

George Arrants
Automotive Education Consultant
Specializing in NATEF/ASE Accreditation

CTE Leadership Academy

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Austin TX.
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

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>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle and mobile equipment mechanics, installers, and repairers 49-3000</td>
<td>1,610.5 1,750.6</td>
<td>140.1 8.7</td>
<td>9.0</td>
<td>544.7</td>
<td>$38,470 —</td>
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<tr>
<td>Aircraft mechanics and service technicians 49-3011 49-3020</td>
<td>121.7 124.7</td>
<td>3.0 2.4</td>
<td>0.6</td>
<td>35.6</td>
<td>High school diploma or equivalent</td>
</tr>
<tr>
<td>Automotive technicians and repairers 49-3021</td>
<td>873.3 956.6</td>
<td>83.2 9.5</td>
<td>13.3</td>
<td>294.6</td>
<td>High school diploma or equivalent</td>
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<tr>
<td>Automotive body and related repairers 49-3022</td>
<td>18.0 20.5</td>
<td>2.4 13.6</td>
<td>17.0</td>
<td>6.9</td>
<td>High school diploma or equivalent</td>
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<tr>
<td>Automotive glass installers and repairers 49-3023</td>
<td>701.1 761.5</td>
<td>60.4 8.6</td>
<td>13.7</td>
<td>237.6</td>
<td>High school diploma or equivalent</td>
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<tr>
<td>Automotive service technicians and mechanics 49-3031</td>
<td>250.8 272.5</td>
<td>21.6 8.6</td>
<td>5.1</td>
<td>75.1</td>
<td>High school diploma or equivalent</td>
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<tr>
<td>Bus and truck mechanics and diesel engine specialists 49-3040</td>
<td>176.3 192.5</td>
<td>16.2 9.2</td>
<td>3.7</td>
<td>67.1</td>
<td>High school diploma or equivalent</td>
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<tr>
<td>Heavy vehicle and mobile equipment service technicians and mechanics 49-3041</td>
<td>35.8 39.2</td>
<td>3.4 9.5</td>
<td>4.3</td>
<td>13.8</td>
<td>High school diploma or equivalent</td>
</tr>
<tr>
<td>Farm equipment mechanics and service technicians 49-3042</td>
<td>119.3 131.6</td>
<td>12.3 10.3</td>
<td>3.5</td>
<td>46.7</td>
<td>High school diploma or equivalent</td>
</tr>
<tr>
<td>Mobile heavy equipment mechanics, except engines 49-3043</td>
<td>10.7 12.1</td>
<td>2.0 3.0</td>
<td>0.4</td>
<td>5.7</td>
<td>High school diploma or equivalent</td>
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</table>
Employment by summary education and training assignment

2012 and projected 2022

http://www.bls.gov/emp/ep_table_education_summary.htm

<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>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number</td>
<td>Percent distribution</td>
<td>2012-22</td>
<td>Number</td>
</tr>
<tr>
<td>Typical entry-level education</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total, all occupations</td>
<td>145,355.8</td>
<td>160,983.7</td>
<td>100.0</td>
<td>100.0</td>
</tr>
<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>
</tr>
<tr>
<td>Master's degree</td>
<td>2,432.2</td>
<td>2,880.7</td>
<td>1.7</td>
<td>1.8</td>
</tr>
<tr>
<td>Bachelor's degree</td>
<td>26,033.0</td>
<td>29,176.7</td>
<td>17.9</td>
<td>18.1</td>
</tr>
<tr>
<td>Associate's degree</td>
<td>5,954.9</td>
<td>7,000.9</td>
<td>4.1</td>
<td>4.3</td>
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<tr>
<td>Postsecondary non-degree award</td>
<td>8,554.2</td>
<td>9,891.2</td>
<td>5.9</td>
<td>6.1</td>
</tr>
<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>
</tr>
<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>
</tr>
<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>
</tr>
</tbody>
</table>
Historical Perspective

- 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?
Career & Technology committees

Shared Committees

✓ Program specific Committees

Advisory committee Handbook
http://www.natef.org/advisory_committee.cfm
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
The purpose of the proposed committee

WHAT’S IN IT FOR ME?

Industry Advice
Technology Changes
Employment Opportunities
Program improvements
Certification Program/industry
Perkins Funding
Review graduate follow-up
**Time, location & agenda of the committee**

- **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 Email 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
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  Easily accessible (nothing blocking the path or the floor below)?

Are  Highly noticeable (should be marked with red square behind

Are  Extinguisher)?

Are  Are they charged and properly tagged and are the inspections current?

Are  Are the exits properly marked?

2. Eye Safety

Problem  OK

Area  Do they have eyewash?

Area  Is it easily accessible in an emergency?

Area  Does the eyewash have proper drainage?

Area  Is the eyewash highly visible?

Area  Do all the students have safety glasses?

Area  Are all the students wearing safety glasses?

Area  Are there extra safety glasses for visitors?

Area  Are there face shields and goggles?

3. General Shop and Equipment

Problem  OK

Area  Does all equipment have shields and guards?

Area  How do they store chemicals and cleaners?

Area  Fireproof cabinet?

Area  Air hoses in good condition? No hose clamps to hold fittings!

Area  Oxygen/acetylene bottles properly tied down?

Area  Ear protection?

Area  Safety posters?

Area  Floors clean?

Area  Do Yellow and Red lines mark the floor properly?

Area  Aisle and walkways clear and marked?

Area  Solvent tank or tanks in proper working order w/ a proper method of fluid
disposal?
Sample Meeting Agenda
Second meeting

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.

1. not at all 2. very little 3. somewhat, needs improvement 4. adequate 5. exceptional above average

**Equipment**

1. Tools and equipment were the same as those used in industry. 12345
2. Tools and equipment were available to all students. 12345
3. The quantity of tools and equipment were sufficient for effective instruction. 12345
4. Manufacturer’s service information was available and utilized. 12345

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

Yes

No

Answer Choices

<table>
<thead>
<tr>
<th>Response</th>
<th>Percentage</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>66.67%</td>
<td>8</td>
</tr>
<tr>
<td>No</td>
<td>33.33%</td>
<td>4</td>
</tr>
</tbody>
</table>

Total 12
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
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.
Thank you

George Arrants

George@georgearrants.com