Briefing on Workforce Development for US Department of Commerce Advisory Committee on Supply Chain Competitiveness

26 January 2017
Transportation in the United States

• Six Sectors (Maritime, Rail, Transit, Air, Trucking, Highway)
• Vital to U.S economic growth and stability
• Supports U.S ability to compete in global economy
• Effectively moves people and goods.
Highways…

- 8,420,589 lane miles, 46,630 Interstate highway miles
- 3,014,116 million vehicle miles traveled (VMT)
- 599,766 road bridges
Transit...

- 7,700 public transit agencies
- 53,353 million passenger miles on public transit
Commuter Rail

- 599 million rail miles traveled
Air…

- 5,202 public use airports
Water...

- 360 commercial sea and river ports
- 9,627 miles of inland waterways
Transportation Workforce
Getting to 2022

• USDOT provides over $51 billion annually in surface transportation funding.
  – $1 billion in infrastructure investment creates 13,000 jobs.

• Transportation sector employers (air, transit, highway, maritime, rail, trucking) will need to hire 4.6 million workers through 2022.
  – Add 417,000 due to industry growth
  – Hire 4.2 million workers to fill vacancies created by separations (retirement, transfer, etc.)
    • Approximately 2 million of the vacancies are in trucking.
Top 20 Jobs by Projected Total Openings 2012-2022

<table>
<thead>
<tr>
<th>Job Category</th>
<th>Projected Total Openings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy and Tractor-Trailer Truck Drivers</td>
<td>1,225,284</td>
</tr>
<tr>
<td>School or Special Client Bus Drivers</td>
<td>330,703</td>
</tr>
<tr>
<td>Laborers and Freight, Stock, and Material Movers</td>
<td>264,209</td>
</tr>
<tr>
<td>Transit and Intercity Bus Drivers</td>
<td>200,534</td>
</tr>
<tr>
<td>Taxi Drivers and Chauffeurs</td>
<td>194,111</td>
</tr>
<tr>
<td>Highway Maintenance Workers</td>
<td>141,009</td>
</tr>
<tr>
<td>Flight Attendants</td>
<td>96,205</td>
</tr>
<tr>
<td>Construction Laborers</td>
<td>89,985</td>
</tr>
<tr>
<td>Light Truck or Delivery Services Drivers</td>
<td>84,811</td>
</tr>
<tr>
<td>Bus and Truck Mechanics and Diesel Engine Specialists</td>
<td>86,854</td>
</tr>
<tr>
<td>Dispatchers</td>
<td>85,446</td>
</tr>
<tr>
<td>First-Line Supervisors of Transport Machine Operators</td>
<td>75,313</td>
</tr>
<tr>
<td>General Office Clerks</td>
<td>70,020</td>
</tr>
<tr>
<td>Airline Pilots, Copilots, and Flight Engineers</td>
<td>57,869</td>
</tr>
<tr>
<td>Aircraft Mechanics and Service Technicians</td>
<td>57,152</td>
</tr>
<tr>
<td>Customer Service Representatives</td>
<td>53,369</td>
</tr>
<tr>
<td>Operating Engineers &amp; Construction Equipment Operators</td>
<td>47,979</td>
</tr>
<tr>
<td>Railroad Conductors and Yardmasters</td>
<td>45,126</td>
</tr>
<tr>
<td>Locomotive Engineers</td>
<td>37,186</td>
</tr>
<tr>
<td>General and Operations Managers</td>
<td>35,234</td>
</tr>
</tbody>
</table>

Projected Total Job Openings (Growth and Separations)
Key Workforce Challenges

✓ 40-50% of the transportation workforce will retire in the next 10 years

✓ Fewer people are going into key transportation fields

✓ Competition for workers from other industries

✓ Challenge of reaching women and minorities
Annual rates of labor force growth, 1950-2025

<table>
<thead>
<tr>
<th>Period</th>
<th>Rate</th>
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</thead>
<tbody>
<tr>
<td>1950-60</td>
<td>1.1</td>
</tr>
<tr>
<td>1960-70</td>
<td>1.7</td>
</tr>
<tr>
<td>1970-80</td>
<td>2.6</td>
</tr>
<tr>
<td>1980-90</td>
<td>1.6</td>
</tr>
<tr>
<td>1990-2000</td>
<td>1.2</td>
</tr>
<tr>
<td>2000-2015</td>
<td>1.0</td>
</tr>
<tr>
<td>2015-2025</td>
<td>0.2</td>
</tr>
</tbody>
</table>


Projected
“The Perfect Storm”

- RETIREMENTS
- SMALLER HIRING POOL
- NEW SKILL REQUIREMENTS
Workforce Development Continuum

K-12:
- Awareness of Field
- Build Skills

College:
- Early Career Choices
- College Choices
- Stay in Major

Employment:
- Employment/Graduate School
- Development Choices
- Rehire
Workforce Skill Needs

- Critical competencies include:
  - Leadership
  - Strategic Thinking
  - Quality management
  - Process Improvement
  - Organizational Effectiveness
  - Technical Knowledge and Expertise
  - Creative Thinking
National Transportation Workforce Partners

Facility Owners/Consultants
(Plan, design, operate)

K-12 Operators/Drivers

Skilled Trades

Tech Schools/Comm. Coll.

4-yr & Grad Higher Ed

Continuous Learning

Construction/Maintenance

Transit Operators

Truckers

Freight Railroads

Maritime
Current Initiatives

• **Highways** - FHWA – On-the-Job Workforce Training

• **K-12** – FHWA- National Summer Transportation Institutes

• **Transit** - FTA – Transit Workforce Development Grants

• **CDL** – FMCSA – Streamline CDL certification process for Veterans

• **Universities** – University Transportation Centers
The Commercial Drivers License Experience

January 26, 2017

Selden Fritschner
Commercial Drivers License Division
Presumptions

• **FMCSA’s main mission is highway safety.** It’s authority is set by Congress;

• The driver’s license is, in this case, is not defined as a credential, but a license;

• The Federal government sets minimal regulations on the issuance and maintenance of a CDL; and

• But, States may toughen those regulations.
Congressionally Mandated Study

- § 4135 of SAFETEA-LU directed DOT to convene a task force to study impediments and foreseeable challenges to the CDL program;
- Task Force members included State motor vehicle administrators, government agencies and officials, judicial conference, trucking industry, labor, safety advocates, and other stakeholders;
- Task Force offered FMCSA an opportunity to use its safety partnerships and work cooperatively to improve the CDL program; and
- Task Force recommendations included:
  #12 - **Prepare Department of Defense drivers for CDL.**
  The FMCSA should work with the Department of Defense to establish a driver training and testing program for military personnel that includes as a minimum knowledge and skills requirements comparable to those expected of civilian commercial drivers.
Original Goal

- Equate military training and experience to civilian licensing requirement;
- Evaluate military training – on site with AAMVA and FMCSA;
- Educate State Driver Licensing Agencies (SDLAs) of the strength of military training;
- Provide process to transition – Military Skills Test Waiver; and
- Develop waiver process in cooperation with AAMVA and DOD.
Initiatives That Followed

• White House Initiative on Credentialing – Joining Forces
• US Chamber of Commerce – Hiring our Heroes
• International Brotherhood of Teamsters – Helmets to Hardhats
Successes

- Military Skills Test Waiver introduced – May, 2012;
- To date, more than 15,000 military personnel have taken advantage of the waiver reducing wait time for licensing from months to 14 days;
- All 51 SDLAs (States and DC) offer the waiver;
- Waiver promoted by all military branches at time of separation; some service branches more so than others; and
- Success of waiver has led to other workforce development and transition efforts.
Partnerships are the Key
Next Steps

- National public awareness and interest in transportation as a career.

- Data gathering and analysis to understand the impact that technological advancement (autonomous vehicle technology etc.) will have on current projections.
For More Information

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