Southeast Transportation Workforce Center
2017-18 Initiatives

10/03/17
Southeast Transportation Workforce Center (SETWC)

Agenda

• Action Plans

• National Transportation Career Pathways Initiative

• Transportation Spotlights

• Questions
SETWC Action Plans

- T-STEM Academy Blueprint
- Choosing Transportation
- Women in Transportation Initiative
Transportation-STEM Academy at East High

- Summer academy hosted nearly 60 students

- 2017 freshman cohort includes:
  - 90 students
  - 52 boys
  - 38 girls

- Current activities:
  - Currently on track to add diesel technology to program offerings in fall 2018
  - Local steering committee building project, field trip, speaker database
  - CEO Speaker Series
  - STEM Ambassadors
  - Looking for opportunities to partner with ‘sister schools’
  - SETWC Blueprint report after first year operations
Transportation-STEM Academy at East High
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Transportation-STEM Academy at East High
Transportation-STEM Academy at East High

What’s Next?
• Establishing ‘sister school’ partnerships
  • Cabrillo High School is partnered with SWTWC
  • Heyward Career Center – Forrest Acres, SC – diesel program with Cummins
• CEO Series
• Quarterly genius projects
• ‘Lead in, Lead out’ field trips
• And lots more!
Choosing Transportation Summit, March 22-23 2018

• Conference will be held in U of M FedEx Institute of Technology
• Annual Blue Pump Gala
• New format for event
  • One-day conference followed by half-day working group meetings
    • Women’s Initiative
    • Operations working group
  • Conference will include professional and student tracks
  • Will again include vendor fair
  • Will provide shuttles between hotels/conference/gala venues

SAVE THE DATE!!!!!!!!!!!!!!!!!!!!!!
Women’s Initiative

• Partnership with Women’s Foundation, workforce boards, industry

• Identify possible focus areas and pilot program opportunities

• More to come! Interested? Contact Stephanie Ivey at: stephanie.ivey@memphis.edu
PROJECT OVERVIEW

National Network for the Transportation Workforce

- 5 Regional Transportation Workforce Centers
- Nationwide University-Based Research Team
- Dedicated to the Development of the Transportation Workforce
- Unique Discipline Focus at Each Center
“A goal of the National Transportation Career Pathways Initiative is to document a series of career pathways (a sequence of educational courses and training programs that align to an occupational career ladder) that engage and prepare students for key transportation occupations.”

PROJECT OVERVIEW

• Identify Top 10-20 Occupations with Ops Focus in Transportation, Next 5-15 Yrs
• Identify Knowledge, Skills, Abilities (KSA’s) Required by These Top Occupations
• Identify Gaps in Post-K12 Training/Education Delivery, Currently & Over Next 5-15 Yrs
• Identify Innovative Approaches to Delivering KSA’s into Student/Worker Prep Pipeline
• Describe a Series of Career Pathways that Lead to Top Occupations, Next 5-15 Yrs
• Identify Scope of Pathway Implementation to Address Workforce Needs, Next 5-15 Yrs
• Identify Barriers; Propose Recommendations
Career Pathways

“Career pathways are an integrated collection of programs and services intended to develop students’ core academic, technical and employability skills; provide them with continuous education, training; and place them in high-demand, high-opportunity jobs.”

Core Pathway Components

- **Strategic Partnerships** – Employers, Education & Training Providers, Community Based Orgs
- **Multiple Entry/Exit Points** – Post K12 Pathways, Marketable Credentials at Each Step, Short-Term Certificates, Links Training to Credit/Transcripts
- **Employer Participation** – Pathway Development, Worksite Training, Internships, Job Placements
- **Innovative Program Content/Delivery** – Technical Certifications, Contextualized/Accelerated Basic Skills, Flexible Scheduling, Experiential Learning
- **Integrated Support Services** – Career & Academic Coaching, Financial Aid, Access to Public Benefits
Region 10 Advanced Manufacturing CAREER PATHWAYS MAP

Business and Industry Experience, Proven Leadership Skills
Experience with Contracts, Advanced PC Skills, Mechanical Desktop, ProE, Leadership Skills, Strategic Thinking, Organizational Planning
Accounting, ERP and Analysis, Technical Product Knowledge & Experience, Presentation Skills
CAD Design/Modeling, Programming, Mechanical/Electrical Intermediate and Troubleshooting Skills, Coaching, Delegation, Mfg. Experience
CNC Skills, Instrumentation, Teamwork, Problem Solving, Negotiation & Customer Service Skills, Mechanical/Electrical Basic Skills
Personal Effectiveness Skills, Academic Competencies, Multi-Tasking, Organization Skills, Attention to Detail, Mechanical Aptitude, Blueprint Reading

- Executive, Senior Leadership ($22 - $38/HR)*
- Manager, Engineer ($14 - $26/HR)*
- ERP Analyst, Sales, Technical Customer Service Representative ($17 - $28/HR)*
- Machine Tech, CAD Designers, Electronics Tech, Supervisor, CNC Programmer, Procurement Specialist ($13 - $22/HR)*
- Fabricator, Welder, CNC Operator, Material Handler, Scheduler ($10 - $22/HR)*
- Metal Workers, Product Inspection Finishers, Office Support

4-year Degree, Demonstrated Industry Exp. 4-year Degree + Experience + Certifications
Certifications and/or 2-year Degree
AAS or 3 years Experience
Some Postsecondary, Exp. and/or Certifications
High School/ GED
• Timeline:
  
  • April 2017: DWGs formed/national kickoff
  
  • May 2017: Initial DWG meetings
  
  • January 2018: Initial report due for career pathways for critical occupations
  
  • August 2018: Initial report due for implementation plan
  
  • October 2018: Final report due
National Transportation Career Pathway Initiative

Goals and outcomes

- Career pathway templates
- Drive curriculum at local schools
- Long-term industry/academic working groups

- For critical transportation occupations
- Continue to steer and advise workforces’ skills, competencies, job availability, wages, etc.
• Operations Discipline Working Group:

  • **Dave Bergner**, Principal, Monte Vista Associates; Chair, TRB Standing Committee on Maintenance and Operations Personnel
  
  • **Robert Bertini**, Director, Center for Urban Transportation Research at University of South Florida
  
  • **Brad Freeze**, Director Traffic Operations Division, TDOT
  
  • **Nathan Garrett**, Assistant Director, Tennessee College of Applied Technology
  
  • **Sean Healy**, Senior Vice President Strategic Planning & Engineering, FedEx Freight
  
  • **Taiwo Jaiyeoba**, Associate Vice President, HNTB Companies
  
  • **Crystal Jones**, Team Leader Freight Management and Operations, FHWA
• Operations Discipline Working Group:

• **Terry Murphy-Latta**, Director of Railroad Training Programs, National Academy of Railroad Sciences, Johnson County Community College

• **Eric Rensel**, Vice President, Gannett Flemming

• **Mark Robinson**, President and COO, Dbi Services

• **Gary Rosenfeld**, CEO, Memphis Area Transit Authority

• **Page Siplon**, CEO, TeamOne Logistics

• **Patrick Son**, Managing Director, National Operations Center of Excellence

• **Anne Strauss-Wieder**, Director of Freight Planning, North Jersey Transportation Planning Authority
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• Get Involved!

• Transportation Spotlights – nominate your colleagues (or yourself)

• Weekly social media campaign all year!
  - @SETWC_UofM
  - Facebook & LinkedIn (Southeast Transportation Workforce Center)

• Web repository (will also build into operations career pathway resources)
• JOC Inland Distribution Conference 2017
  • November 6 session for students
  • Modeled after last year’s successful partnership (and ‘Meet your Mode’ format)
  • Capacity of 125 students
  • Atlanta area school contacts?
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Questions?

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