Scaling Registered Apprenticeship-Based Pathways for Sustained Impact

NCPN Conference - October 6-7, 2016
What is registered apprenticeship?

Five Core Components of Registered Apprenticeship:

- Employer Involvement
- Structured On-the-Job Learning
- Related Training and Instruction
- Rewards for Skill Gains
- National Occupational Credential
Did You Know?

150,000
Employers and Labor Management Organizations Participate in Registered Apprenticeship.

400,000
Registered Apprenticeships Nationwide in More than 1,000 Occupations.

$50,000
Average Starting Salary of Apprentices Per Year While Earning a Credential Equivalent to a 2 or 4 Year College Degree.

$300,000
Amount Workers Who Complete Registered Apprenticeship Programs Earn More Over a Lifetime Than Peers.

$1.47 per $1.00
For Every $1 Spent on Registered Apprenticeship, Employers Get an Average of $1.47 Back in Increased Productivity.
New "Make the SMART Choice" Video Shows how Maritime Offers Step t...

The SMART Center has released a new installment in its "Make the SMART Choice" video series showing how today's maritime industry employers are offering workers a great pathway into stable, great-paying careers. The video tells the story of how Auxiliary Syste...

Read more about this

SMART Center PI, US Department of Labor Office of

Laura Ginsburg, Team Leader at the U.S. Department of Labor's Office of Apprenticeship, invited SMART Center P...

Virginia Business Recognizes SMART Center and TCC ...

Virginia Business, a leading publication profiling business-related news in the Commonwealth, has recognized l...

Virginia Maritime Association Releases Economic Im...

The Virginia Maritime Association recently released The Economic Impact of Virginia's Maritime Industry - The ...

Why Smart?

The Southeast Maritime and Transportation (SMART) Center is the only National Science Foundation Advanced Technology Education (NSF-ATE) Center solely focused on increasing the number of well-qualified, skilled technicians in the maritime and transportation industry.

Read more about SMART

Featured Careers

Ship Pilot
1) Consult maps, charts, weather reports, and navigation equipment to determine and direct ship movements.
2) Di... read more

Second Mate
The second mate is responsible for maintaining the bridge navigational and communications equipment as well as...
New "Make the SMART Choice" Video Shows Maritime Offers Step t...

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Read more...

Virginia Business Recognizes SMART Center and TCC...

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Make the SMART Choice: Maritime Apprenticeships Lead to Broad Opportunities On and Off the Water

Colter Chambers
Maritime Apprentice
Regional and National Apprenticeship Partnerships

- Industry
- Colleges
- ATE Centers
- Government
- High Schools

SMART
MARiTech Consortium

- Leading creation of dual enrollment programs
- Leading creation of new programs in Maritime Technologies
- Leading creation hybrid courses
- Leading curriculum updates to serve industry

Meeting Student & Industry Needs
Link to jobs through deep employer engagement

Result in credentials that support career pathways

Make training accessible to diverse students and workers

Build a bridge to real work

Set clear goals and measure outcomes
Apprentices “**earn and learn**”, resulting in higher pay from the beginning and early graduation.

Most new apprentice graduates earn more than students graduating with a Bachelor’s degree.
Potential Earnings Comparison between College Career Path and Apprenticeship

Enter College from High School

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Enter workforce from High School

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Benefits of Stackable Credentials & Dual Enrollment Head Start
# Education in Maritime and Transportation Pays

<table>
<thead>
<tr>
<th>Education/Experience</th>
<th>Maritime Jobs</th>
<th>Pay Range</th>
<th>Transportation Jobs</th>
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</table>
| Master's Degree / Bachelor's Degree with Experience | • Industrial Engineer  
• Nuclear Engineer  
• Project Supervisor  
• Electrical Engineer  
• Mechanical Engineer | $75K - $100K  
Yearly | • Industrial Engineer  
• Supply Chain Manager  
• Electrical Engineer  
• Civil Engineer  
• Captain |
| Bachelor's Degree                                | • Production Manager  
• Health & Safety Inspector  
• Logistics Manager | $60K - $90K  
Yearly | • Transportation Manager  
• Distribution Center Supervisor  
• Ports Logistician  
• Ocean Engineer |
| Registered Apprenticeship / Journeyman           | • Marine Welder  
• Inside/Outside Machinist  
• Shipfitter  
• Rigger | $41K - $68K  
Yearly | • Freight Forwarder  
• Marine Designer  
• Longshoreman  
• HVAC Technician  
• Welder |
| Associate's Degree / Certifications or College Coursework & 1-2 Years Experience | • Electrical Technician  
• Mechatronics Tech  
• CAD/Designer  
• Marine Maintenance  
• Instrumentation | $17 - $26  
Hourly | • Production/Planning Clerk  
• Crane and Tower Operator |
| Intensive Training Programs                      | • Certified Welder  
• Maritime Electrician  
• Mechanics | $15 - $25  
Hourly | • Rail-Track Laying and Equipment Operator  
• Heavy Vehicle Service Tech |
| High School Diploma or GED                        | • Welder  
• Helper  
• Fire Watch | $8 - $15  
Hourly | • Freight, Stock and Material Mover  
• Shipping, Receiving and Traffic Clerk |
ApprenticeshipUSA

REGISTERED APPRENTICESHIP-COLLEGE CONSORTIUM (RACC)

A network of Colleges and Registered Apprenticeship Programs working together to provide college-to-career opportunities

LEARN MORE

FAQs
FRAMEWORK
STANDARDS OF GOOD PRACTICE

College Members
Apprenticeship Members
Other Members

PATHWAYS TO SUCCESS

EDUCATORS
- Provide Apprentices an accelerated career preparation

REGISTERED APPRENTICESHIP SPONSORS
- "Grow your own" career path

REPRESENTING ORGANIZATIONS
- Be on the cutting edge of industry innovations

https://www.doleta.gov/oa/racc.cfm
Discussion & Questions
The SMART Center serves as a regional ATE center and is an economic model for developing a sustainable, globally prepared maritime and transportation workforce for the 21st century through partnership with vital industry and educational entities.