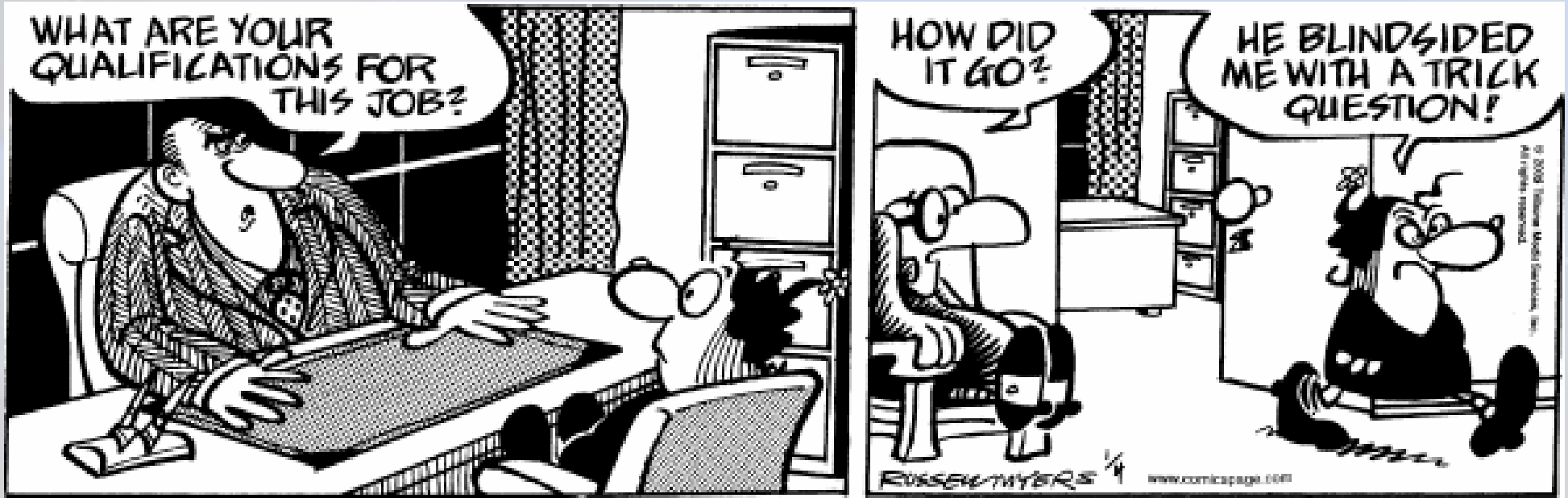


Building Tomorrows' Workforce Today

Advanced Manufacturing Academy Pre-Apprenticeship Program



Why Advanced Manufacturing Academy (AMA)?



- U S Graduation Rate just below 70%
- In 2007, an estimated 1.2 million students that could have graduated but didn't
- 78% of new job openings between 2006-2016 will require post-secondary or long term skills training
- The current LA high school drop-out percentage is 36%

What is AMA?

- Partnership among: Secondary Education, LA Community and Technical College System, Industries, and Office of Apprenticeship
- School within a School
 - 3 Year program
- Provides rigorous academics relevant to Manufacturing Industry Careers
- Creates a seamless transition for student into;
 - Registered Apprenticeship Programs
 - Louisiana Community and Technical Colleges



Who Benefits?

- Student
 - Dual Credits
 - Technical Training
 - Life Skills Training
 - Opportunity for Internships
 - Connects Learning to Industry Application
- Counselors and Teachers
 - Technical Skills Training
 - Professional Development
 - Career environment opportunities
 - Insight into America's Labor Market



Who Benefits? (cont)

- Employers will see candidates that are more:
 - Responsible
 - Qualified
 - Adept at problem solving skills
 - Understand knowledge regarding the importance of continuing education
- Louisiana
 - Higher Post-Secondary enrollment
 - Higher Test Scores
 - Increased number of dual enrolled student
 - Increased graduation rate
 - Employees with higher earning potential
 - Potential to fill the 50,000 job openings



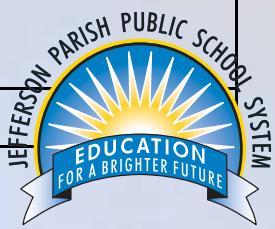
AMA Curriculum

	9 th Grade	10 th Grade	11 th Grade	12 th Grade
1	English I/Composition (2 credits)	English II/Composition (2 credits)	English III (1 credit)	English IV (1 credit)
2	Math –Algebra I/Math Elective (2 credits)	Math – Algebra II or Geometry (1 credit)	Math – Algebra II or Geometry (1 credit)	Math – Trigonometry or Advanced Math (1 credit)
3	Social Studies (1 credit)	Social Studies (1 credit)	Social Studies (1 credit)	Fine Arts (1 Credit)
4	Science (1 credit)	Science (1 credit)	Science (1 credit)	Welding Program (Cuillier or Bonnabel) Machinist Program (Cuillier)
5	Elective (1 credit)	Elective (1 credit)	*Hull Shipbuilding (1/2 Credit) <i>Concurrent enrollment</i>	Career & Technical Internship I
6	Business Computer Applications (1Credit)	Basic Metal Technology (JPPSS - 1/2 Credit) *Metallurgy (LTC) (Prerequisite for employment) <i>Concurrent enrollment</i>	*Marine Engineering (1/2 Credit) <i>Concurrent enrollment</i>	Career & Technical Internship II
7		Basic Technical Drafting (JPPSS - 1 Credit) *Mechanical Drawing (LTC) <i>Dual enrollment</i>	Advanced Tech Drafting (1 Credit)	Elective (1 Credit)
		Elective (1/2 Credit)	Electives (2 Credits)	
CREDITS	8	8	8	



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Linkage to LCTCS

- STUDENTS
 - Eligibility
 - Application
 - Enrollment
 - Cost
- INSTRUCTORS
 - Industry Recognized Certifications
- CURRICULUM
 - Courses accredited by
 - LCTCS Board of Regents (DCC / LTC)
- SACS- Southern Association of Colleges and Schools



Linkage to LCTCS

- PROVIDE STUDENTS WITH:
 - Exposure to career paths in demand occupations
 - College education plan
 - Seamless continuum for lifelong learning
 - ♦ Pre-apprenticeship
 - ♦ Apprenticeship – DCC - Journeyman level
 - ♦ Associate degree
 - ♦ Incumbent Worker Program
 - ♦ Higher education reimbursement



Pre-Apprenticeship (Internship)

- Up to 25 students selected
- Students will work ½ day
- Paid \$10 an hour
- Participants will receive career / craft preparation in the following areas of study:
 - Structural Welding
 - Structural Fitting
 - Pipe Fitting
 - Marine Electrical
 - Machinist
 - Sheetmetal Mechanic
- Course of study will include hands-on / lab training, traditional classroom and computer based training.



Pre-Apprenticeship (Internship)

Students

- Will attend (dual enrolled) the following course
 - Basic Electrical Marine Application
 - Machine Shop 1
 - Blueprint Reading for Shipfitters
 - Industrial Coating
 - Layout 1
- Weekly evaluation, feedback, and counseling will be conducted based on the following criteria:
 - Initiative
 - Reliability
 - Cooperation
 - Technical Ability
 - Attendance

Pre-Apprenticeship (Internship)

Students that successfully complete

- Have preferential selection into NGSB Apprenticeship Program
 - Recommendation required from Apprenticeship Senior Instructors
- Have attained upwards of 4 required semesters (depends upon selected craft)

Northrop Grumman Joint Apprenticeship Committee has adopted specific exception to the 18 year old age requirement.

"... (Age Exception: High School students that have successfully completed the NGSB Manufacturing Academy Career Path, and will be 18 years of age by the end of the hiring calendar year)"

Registered Apprenticeship: A Workforce Development Partnership

- Private and public sector organizations operate Registered Apprenticeship programs
- Apprentice program sponsors pay most of the training costs
- Apprentices are paid employees
- Coordinated with workforce investment system and post-secondary education institutions



What Is Registered Apprenticeship?

- As economy grows and new jobs are created, Registered Apprenticeship can provide a mechanism for businesses to train, develop, and retain talent.
- Highly flexible and proven method for talent development that combines on-the-job training with theoretical and practical classroom instruction.
- Training content is driven by industry needs and therefore provides well-trained workers whose skills are in high demand.



Registered Apprenticeship

- Most registered apprenticeship programs are highly dependent on coordinating services and resources with the workforce development system
- Many technical and community college systems around the country have articulation agreements with registered apprenticeship programs
- In Louisiana, dual enrollment in LCTCS and the apprenticeship program is common practice
- Partnering with a strong pre-apprenticeship program on the high school level provides a ready-made pool of students for entry into the LCTCS system and apprenticeship programs

Next Steps

- Linking Apprenticeship to Associate Degree - ETC Aug 2009
- Articulation agreement with University of New Orleans, Nicholls State and Southern University for Bachelor Degree – ETC 2010
- Development On-Line Course ETC Jan 2010
 - Metallurgy
 - Marine Engineering
 - Basic DC Theory
 - Hull Shipbuilding
- Linking other industries and Apprenticeship Programs to AMA
- Expansion to other schools / Parishes

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