Youth Career Pathways in Manufacturing

“Leading Edge Employment”

GoodForEveryone
New Age Business Partner

NORTHROP GRUMMAN

Good For Everyone
What jobs are on the rise in your community?

What are the skills gaps?
Training challenges?

The problems that needs a solution?

Good For Everyone
The Aircraft Fabrication Model
The Pain Point...

What are your pain points?

What's your problem!
Need for Entry Level Talent

• **Problem**
  – There is not a readily available pool of candidates for entry level positions to support program growth at the Palmdale Location (4,000 – 5,000 new hires in the next 5 years).

• **Solutions**
  – Create a customized training program to meet the hiring demands for the center
    • Reach out to the local Junior College and AJCC to partner in meeting this need.
  – Work with the local High School District to create a pathway program to train qualified High School students for entry level programs within the Aerospace Manufacturing Sector.
  – Seek outside funding options to facilitate and assist the students in taking the classes.
Customized Training Classes

• Partnering with Antelope Valley College, the creation of the Aircraft Fabrication Manufacturing Technician (AFAB) classes were born.

• Provide a “Aircraft Structures Certificate” for graduates
  – Class runs 40+ hours per week for 8 weeks
  – 1 class per 8 weeks provides 250 candidates per year
  – 2 class per 8 weeks (day and night) provides 400 candidates per year
  – Will require back-ground screening (No Felons)
  – Pre-test to meet minimum comprehension and mathematical skills
  – NGC to provide the materials for the practical exams
  – NGC to provide course curricula, work benches, and tools
  – Antelope Valley College to provide the classroom, instructor, and shop air for the tools
AFAB 110 Basic Blueprint Interpretation

- Basic Geometric Definitions
- Basic Lines
- Drafting Methods and Procedures
- Engineering Drawings
- Drawing Numbering System
- Drawing Sheet One
- Review of Decimal Fractions
- Fastener Code Block
- Aircraft Coordinating Reference System
- Engineering Parts List
AFAB 115 Aircraft Structures

- Student Orientation and Shop Safety
- Material Handling
- Precision Measuring Tools
- Drilling Equipment
- Drilling and Countersinking Holes
- Rivet Guns and Accessories
- Riveting Techniques
- Rivet Removal Techniques
- Drilling Composites and High Strength Steel
- Installation of Special Fasteners in Composites
- Cold Working Holes
- Sealant Application
- Bend Allowance
- Forming Aluminum Alloys
AFAB 120 Composites Fabrication and Repair

- Student Orientation and Shop Safety
- Introduction to Composites
- Safety in Composites
- Fundamentals of Fibers
- Matrix Materials
- Core Materials
- Manufacturing
- Applying Pressure
- Methods of Curing
- Machining Composites
- Prepregs and Adhesive Storage Procedures
- Assessment and Repair
- Types of Repairs

2/11/2019
The coursework for this project is being offered in an accelerated format, through Antelope Valley College. The courses are set to begin on February 8th and will run through June 8th.

Here is the class schedule:

- AFAB 110 - MTWR 4pm - 6:05pm (8 weeks only)
- AFAB 115 - MW - 6am - 2:05pm (8 weeks only)
- AFAB 120 - TR - 6am - 2:05pm OR TRS 6pm - 10:05pm TR and 6am-2:05pm S (8 weeks only)
- AFAB 130 - F - 8am-12:05pm (8 weeks)
Here is what you get....

You will get:

- 23 Unit’s of college credit from AVC
- Certificate in Aerospace Manufacturing
- Opportunity to have an interview with Northrop Grumman
- The opportunity of a LIFETIME!!!
Everyone in class will get an interview with Northrop Grumman. Northrop is looking to hire at least 50% of the students from each class. Hiring will be based upon several factors:

- Grades
- Attendance (you can only miss 1 day)
- Aptitude

Those not picked up will have employment opportunities to explore with other local aerospace and manufacturing companies.
Success Stories

Good For Everyone
Your Solution – Making it work

How can you identify the workforce needs to create a career pathway for the youth?
Contact Information

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Questions?