

Essex North Shore Technical High School
365 Maple Street
Hathorne, MA 01937

Program Advisory Committee Minutes

Program: Advanced Manufacturing

Date: October 19, 2018

Members Present:

Instructors:

Advanced Manufacturing

David Bailin, Jack Frasier

New Technology Instructor

Jim Gallante

Parent: Paul Hoff, father of Satya Hoff

Other Members: Bonnie Carr, M. Ed., Community Relations & Partnership Coordinator, Essex North Shore HS, Mark Lyons, Essex North Shore HS, Kim McFarlane, Assessment & Data Services Coordinator, Lynn Vocational Technical Institute, John Donald, Raytheon, Paul Hoff, Crystal Engineering, Brian DeMatteo, L3 Advanced Programs, Bill Marnik, GE Aviation.

Meeting minutes

The meeting commenced at 7 PM.

The Committee received copies of the Program Advisory Committee Minutes from April 5, 2018. After review, and some comments from Bill Marnik, the Committee accepted the Minutes as presented.

As the representative of Advanced Manufacturing on the General Advisory Board, Bill volunteered to continue his activities as note taker for our meetings.

Bonnie Carr led the Committee on a tour of the Machine Shop. With input from the Committee, Bonnie completed a checklist while reviewing various parts of the shop. The following are areas of concern, which need attention from school leadership:

- Emergency Phone Numbers must be conspicuously posted near the Shop Telephone.
- The Shop Sink is faulty, and it needs cleaning and servicing of the foot pedal, or replacement. Students and faculty who use it need a device that ensures cleanliness and safety. Paper towels and hand soap need to be readily available for all. Water pressure is low, and higher pressure is needed to allow more than one user at a time to wash their hands.

The Committee examined the new Water Jet Machine which has been placed in the Machine Shop. Presently, the Machine is being prepared for use.

- One concern is the rusty water in the Water Jet system. Trial runs have shown that the water is discolored, and needs proper filtration. In a normal industrial setting, Water Jet Machines have functional filtering systems that eliminate this problem.
- Another concern is having a hard-piped water supply to the Machine. Presently, users employ a hose to fill the machine, which is inefficient and unsafe. Mark Lyons recommended that it be hard-piped.
- Fumes are another byproduct of the Water Jet process. Mark and others recommended that there be a positive ventilation system installed to clear fumes from the Machine and out of the building. This is key to the safety of all students and instructors who use the Advanced Manufacturing Shop.

Mark Lyons is familiar with this and other similar machines, and he recommended that the sales representative who sold the machine to Essex

North Shore HS be called in for a visit, and advised of the problems that need to be solved. This makes great sense because these issues are need to be addressed that probably occur whenever a new machine is installed in a setting that has not been prepared for the machine.

Kim McFarlane completed a Follow Up Report on the Advanced Manufacturing Program with a few members of the Committee and teachers Bailin and Frasier. The follow Up Report was passed onto Bonnie Carr.

Instructors Frasier and Bailin expressed the need for a fully-operational Simulator Lab for Advanced Manufacturing. There is space available in the rear of the Advanced Manufacturing Tool Crib. The Committee endorsed this idea, and stressed that Simulators for Haas Machinery are the best for the students because most CNC machines at the HS are Haas.

Bonnie Carr presented the good news that 100% of Essex North Shore HS Advanced Manufacturing Juniors and Seniors are interns at local machine shops. This is a tribute to the HS Placement Department, the Instructors and the students.

In following the school-wide objective of Essex North Shore HS, Bill Marnik requested that Committee members search for members that are from non-traditional backgrounds (i.e. Women in the Manufacturing Professions) to serve on the Committee.

The meeting adjourned at 7:45 PM.