

DVR Technology & Engineering Education Committee

Meeting 2- Friday, Dec. 1, 2018 9:00 AM-1:30 PM

Triton Main Campus (East), T Building, Room 126

Our goal is to have at least 1 representative from each school at every meeting in order to facilitate communication and help support each school through our interactions with Triton, DVR, and the requirements of our programs in educating our students.

Manufacturing Programs

AGENDA

Snacks and Introductions

Core Meeting-

Triton Advisory Council

Business and University Partners

General DVR Information Update (HS and Triton)

October Meeting Highlights

Certiport Training @ OPRF

HS Advisory Councils Information Distribution

Action Items

Curriculum Updates (share school pathways)

Needs for High Schools

Attendees from DVR

Derek Cappaert & Eric Lasky- Ridgewood

David Weishaar- RB

Andrew Hebert- Proviso East

Paul Zurek & Frank Holthouse- Leyden

Eduardo Rodriguez- Proviso West

Ryan VenHorst- OPRFHS

Triton Business Partners

Eclipse Lighting, Diesel Radiator, Operating Engineers Union Local 399, Dudek & Bock, Inland Die Casting, FMA and TMA, and Industry Consortium of Advanced Technical Training (ICATT),

Triton Program Offerings-

Antigone Sharris covered the various certificate and degree offerings available through Triton and sought comments from the business partners.

Re: Electrical Program Certificate

Eclipse Lighting representative shared some insights into current lighting technology regarding power sources as well as low voltage systems that are becoming more widely implemented for energy and cost savings in the long term. Lighting and electrical are rapidly changing. Telecomm (low voltage systems) is now becoming more widespread and new training and education should be introduced at the educational levels in high school and community college.

Energy Conservation Course offerings for Operating Engineers Union Local 399. This is a necessity which helps them work better with an understanding of the needs related to sustainability, energy conservation, daylighting, and other pertinent subjects.

Re: Welding Processes I and II

MIG, TIG related skill development offered to students in the course. All businesses were supportive of the course objectives and then emphasis was added to training students at far younger ages on the use of tools and equipment.

There is a need for workers to be comfortable with fabrication equipment and related skills (drills, welding, communication (reading and drawing prints)).

Kathy Dudek of Dudek & Bock stated that manufacturing is healthy at the American level with many opportunities for skilled labor forces. Everyone involved needs to have a knowledge of the basic manufacturing process, (safety, lean manufacturing, varied industry types).

Fabrication and Manufacturing Association connects high skill training programs for smaller shop companies to upskill employees on site or in more convenient collectives. There is now a \$4M

grant for advanced manufacturing training. Calumet Advanced Training Center is one location where that money has been allocated previously. In the south suburbs, Logistics is an in demand career based on opportunities because of the transportation hubs. The America's Promise Grant push is to have people earning industry recognized credentials. The ultimate goal of America's Promise is to get more companies involved around ONE table to advance better coordination of education and career pipeline development for middle and high skill manufacturing. Innovation Funding Grants are available in order to help at the community college and the high school level.

Discussion on high school student involvement in CTE course work was mentioned as the high school to community college pipeline was discussed. One part of the discussion centered on the pressure in schools to have students taking AP courses in preparation for college. OPRF and Leyden stated that they are a part of the Equal Opportunity Schools initiative and their students of color are being guided toward more AP courses. David Weishaar of Riverside-Brookfield also mentioned the fact that some schools are allowing for early release of Juniors and Seniors in some cases. Often the idea is to allow students to go to a job, but the accountability for that is not always sufficient. This is a time where CTE courses can offer more to the students as a part of their secondary education.

Many businesses are looking for better ways to connect more directly with students in order to make inroads at a younger age. Deltrol has been working with the National Fluid Power Association for many years to offer mentors and money to middle school students who participate in a fluid power competition every year. Other opportunities were mentioned regarding the Illinois Science and Technology Institute where mentors are matched with students working on longer timeline authentic STEM projects. It was also mentioned that this can be another means for the high schools to build relationships with companies looking to partner with younger students (freshman and sophomores) looking to explore in the various career pathways.

The business partners made mention of the conventions that are available to have students interface with professionals in a wide variety of fields from manufacturing to construction and engineering. There will be a conference from January 22nd-24th called the AHR Expo Show @ McCormick Place. It is free to students who are at least 16 years old.

Ryan VenHorst discussed the opportunity offered to the various schools to work with Certiport on October 19th at OPRF. Several schools had representation and discussions are going forward to decide where it is appropriate in the Technology Departments to offer certificate training and testing.

The October 27th DVR Meeting took place at the Illinois Technology Education Conference in Bloomington, IL. Representatives from Ridgewood and OPRF were in attendance. While the numbers were low, we were able to discuss the implementation of PLTW at Ridgewood along with the continued work being done in Geometry in Construction to collaborate among various curricular areas. OPRF is continuing as well with its current offerings in woodworking/manufacturing, automotives, and engineering through PLTW.

Each high school was given a set of books and pathway information in order to continue development of the career pathways offered. Further discussion on these materials and the advisory councils for each school to develop will take place at the next DVR Technology Committee Meeting on January 19th, 2018.