

# DVR Technology & Engineering Education Committee

*Meeting 2- Friday, Dec. 9, 2016 12:00 PM-3:00 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.

All Areas

**Attendees- See minutes from Triton**

## AGENDA

Snacks and Introductions

Core Meeting-

Triton Advisory Council

Business and University Partners

ICATT Apprentice Program Update

General DVR Information Update (HS and Triton)

November Meeting Highlights

Certification Options

HS Advisory Councils

Dual Credit update- each of the HS progress

Action Items

Curriculum Updates (share school pathways)

Needs for High Schools

**Business Needs-** A discussion was led by Antigone Sharris about the needs of businesses with regard to skills and employment demands. Below are some of the skills mentioned by various manufacturing representatives.

- G-Code Creation (Dudek & Bock)
- Robotic Welding
  - Offered through Proviso, Morton,
  - MetaCam works with SolidWorks instead of using MasterCam
- Tolerancing, GD&T Test (Dynomax)
- Hydraulics and Fluid Power (Deltrol)

Representation of Students in the Triton Mechanical Engineering Program- Demographics at Triton, Gender, 32% female Spring 2017

40 students in Mechatronics Program

### **School District Current Practices**

- Hour of Code being done in Melrose Park/Bellwood at the K-5 level. (Dec. 5-9, 2016)  
This district has begun emphasizing engineering a K-5 this year.
- Leyden Feeders- Middle Schools have GTT, STEM style programs at 2 other schools, 1 Homegrown, 1 LabVolt
- Students move in to HS classes as electives
- Other HS are offering STEM programs along with Industrial Technology
- Dudek Spring to do Job Fairs for Mfg. at Morton East/West

### **Requested Opportunities from Schools/Businesses**

- Open House opportunities to let people under 18 in to facilities to see Manufacturing in action.
- Dynomax requires 4000 hours experience to get in to the company.
- Disconnect on continuing student cohorts through career pathways. Students begin and then leave without choice. Is there are disconnect to pathways or is their intention keeping them from continuing in the pathway? Are they being directed to AP?
- Local to Regional to State to Federal entities working together to promote more knowledge about programs in order to support policy that brings progress back down to the local level.

### **Other Items**

- On the ISBE website (<https://www.isbe.net/essa>), anyone can comment on ESSA College/Career Ready requirements for HS students.
- Manufacturing is “engineering in action”- a goal needs to be set to get more counselors, administrators, community leaders to see the industrial and manufacturing environment.
- Welding making a comeback at Triton/ Robotic Welding
  - \$80,000 to create the facility and equipment to begin offering the program

- How can we get support at the educational level to get financial support for the programs needed? Leyden is getting support through relationships driven by advisory council membership and in return supplying a beginning workforce for the companies.
- Businesses can support with validation of program and a timeline to see ROI for donations. Most companies have a philanthropic arm and are willing to give if there is a means for them to receive credit and understand the payoff in the future.

[www.skillscout.com](http://www.skillscout.com)

**German-American Chamber of Commerce-** creates a means for skilled German labor force to fill career positions in America where a skills gap exists. Allows German systems and workers to be introduced here in the U.S. The program creates an apprenticeship program for employers to have workers complete 3 days of work and 2 days of class to train for the skill positions. The first partner is Principal Manufacturing in Broadview with Triton. They visit 15 high schools 2x a year currently. No tuition, 2 year job guarantee... Non-profit organization

### **HB 5729 Post-secondary Workforce Readiness Act**

- Create a structure for students to avoid remedial education for placement in Community College.
- Stackable Credentials created to demonstrate abilities
  - HS Diploma
  - Work Keys
  - MSSC (Manufacturing Skill Standards Council) intersects with CIM (see handout in Triton Folder)
  - NIMS
  - Bachelors
  - Engineer
  - Etc.