

DVR Industrial Technology Committee

Final Report 2013-2014

YEAR FOCUS: Promote, navigate, and review [www.DVR – EFE.info](http://www.DVR-EFE.info), Establish Dual-Credit opportunities

Meeting 1 – Thursday, October 17, 2013 8:00AM

Topics: All Industrial Technology Areas

East Leyden High School

3400 Rose St

Franklin Park, IL 60131

Fiscal Conference Room 017

In Attendance: Frank Holthouse - Leyden, Brian Collier - Ridgewood, Neil Posmer - Elmwood Park, Ryan Venhorst - Oak Park & River Forest, Carl Fedele – Proviso

Presentation and Discussion of Programs of Study Website

- Members reviewed all sections of www.DVR-EFE.info.
- Members were shown how to systemically review the student schedules for accuracy.
- Mr. Venhorst brought up the concern of this tool possibly being used to direct students into department courses for the sake of numbers. Mr. Holthouse brought up that all courses must adhere to the pathways established by the state.
- Mr. Fedele noted that some pathways are not displaying on the webpage. Mr. Holthouse added that the terms cluster and pathways should be defined so that they are accessible to students and parents.
- Overall members thought that this could be a very powerful tool in guiding students through high school into post-secondary training for careers. The website review document was shared with members so that they could continue work outside of the meeting.

Project Lead the Way and STEM

- Mr. Posmer noted that Elmwood Park is looking into new elective opportunities for students and was interested in finding out more about PLTW. One concern is the requirement of three courses in three years with a school population of around 900 students.
- Mr. Fedele also noted that Proviso is exploring this option. Currently Proviso focuses on Automotive Technology, but they may expand.

- Mr. Venhorst clarified a lot of the questions regarding this program as their school has implemented PLTW for the longest. He noted that OPRF has removed their prerequisites and that they highlight the importance of soft skills with their students.
- Mr. Collier noted that Ridgewood currently uses the Engineering by Design Model to give students STEM opportunities.
- Mr. Holthouse noted that Leyden is in its second year of implementation and just began a STEM advisory council.

Tour of Leyden's Facilities

- All members toured the Metals, Autos, Woods/Construction and Engineering Labs. Some of the equipment highlighted was a BFB300 3D printer, a Shop Bot CNC router, and a LaserPro C180 Laser engraver.

School Clubs / Organizations

- Members shared ideas regarding after school clubs such as Battle Bots, FIRST robotics, and Skills USA.

Sharing of Curriculum

- Members shared several lessons and projects.

Members continued a professional discussion over Lunch

Meeting 2 – Tuesday, November 12, 2013 12:00PM

Topics: AutoCAD, Architecture, Engineering & Design

Meeting Took Place at East Leyden High School

3400 Rose St

Franklin Park, IL 60131

Library Classroom A, CAD and Metals Labs

In Attendance: Frank Holthouse - Leyden, Brian Collier - Ridgewood, Carl Fedele - Proviso

Presentation and Discussion of Programs of Study Website.

- Members reviewed all sections of www.DVR-EFE.info.
- Members were shown how to systemically review student schedules for accuracy.

CNC Router Tutorial

- Mr. Holthouse demonstrated cutting CAD files on a CNC router. Members cut an oversized ruler for classroom use. Members were shown how to place files in relation to an absolute zero and convert the final design to a DXF file for Computer Aided Manufacturing (CAM). Next, members were shown how to mount stock, offset tools, zero the machine and run a CNC router.

Laser Engraver Tutorial

- Mr. Holthouse demoed how to design for and use a laser engraver. Leyden purchased a laser engraver to mark students' 1:1 device. When the machine is not being used for this purpose it is used by the Industrial Technology department. Leyden recently began using the machine to engrave key chains as part of a local charity effort. Mr. Collier noted that Ridgewood has a laser engraver as well and they will be trained on it this week. The demo covered starting up the machine, preventative maintenance, and operation.

Sharing of Curriculum

- Members shared several lessons and projects.

Meeting 3 – Thursday, February 6th, 2014 9:00 am

Topic: Automotive

East Leyden High School

3400 Rose St

Franklin Park, IL 60131

Autos Lab Room 124

In Attendance: Frank Holthouse, Jeff Clarke, Joe Shilts – Leyden H.S., William O'Connell, Robert Jaimes -Triton

Dual Credit Review

- Members discussed the current status of dual credit in the DVR area, Mr. O'Connell shared that Elmwood Park H.S. students often take AUT 112 at triton afterschool. Currently, Riverside Brookfield H.S. has a dual-credit agreement. Out of district schools such have Wheeling H.S. and Elk Grove H.S. still use articulated credit. Mr. Clarke inquired if would be possible for offer articulated credit for AUT 112 since the curriculum offered at Triton lines up the curriculum offered at Leyden H.S.. Instructors noted tooling, procedure sheets, curriculum, and syllabi alignment would be critical moving forward. Mr. O'Connell stated that he would check with Triton's Vice President for approval and next steps. Ideally, Triton would host an instructor seminar to review expectations for secondary instructors.
- Mr. O'Connell added that Triton's Automotive Technology program has an advantage over other programs because of the programs transferability as well as lower cost of tuition.

Presentation and Discussion of Programs of Study Website

- Members reviewed all sections of www.DVR-EFE.info. Members were shown how to systemically review the student schedules for accuracy with their institution. The

website review document was shared with members so that they could continue work outside of the meeting.

Career Clusters and Pathways

- Members were shown state course descriptions for curriculum alignment.

Tour of Leyden's Facilities

- All members toured the Metals, Autos, Woods/Construction and Engineering Labs. Some of the equipment highlighted was a BFB300 3D printer, a Shop Bot CNC router, and a LaserPro C180 Laser engraver.

School Clubs / Organizations

- Members shared ideas regarding running safety checks for teacher's vehicles. Students could inspect and report on the condition of teacher's cars and which items would need further attention. Additionally, information regarding the Automotive Service Technology and Power Equipment Technology competitions at Skills USA were shared.

Meeting 4 – Friday, April 11th, 2014 9:00am

Topic: Construction

Triton College

2000 Fifth Ave.

River Grove, IL 60171

T Building Room T-162

In Attendance: Frank Holthouse, Greg Lindemann,— Leyden H.S., Carl Fedele —Proviso H.S.
JoBeth Halpin, Antigone Sharris —Triton College

Members began the meeting with introductions and breakfast.

Dual Credit Review

- Members discussed the current status of dual credit in the DVR area. There seems to be a lack of communication between organizations when schools attempt to set up dual credit. Members also expressed concern that dual credit also sets up inequitable scenarios where one high school instructor may meet the requirements to offer dual credit and the other instructor may not for the same class. All members present agreed that articulated credit created more opportunities for students and had fewer issues in implementation.

Presentation and Discussion of Programs of Study Website

- Members reviewed all sections of www.DVR-EFE.info. Members were shown how to systemically review the student schedules for accuracy with their institution. The website review document was shared with members so that they could continue work outside of the meeting.

Career Clusters and Pathways

- Members were shown state course descriptions for curriculum alignment.

Tour of Triton's Facilities

- All members toured the Engineering Lab in the T-building, followed by the IBC rooms in the R-building.

Independent Building Contractor Program Overview

- Mrs. Halpin shared an overview of the new Independent Building Contractor program at Triton. This program is intended for adults who want to begin their own business. Content includes rough carpentry, finish carpentry, plumbing, interior preparation, and sustainable practices.

Triton Update

- It was shared that Triton hired a new Dean of Technology. Triton also shared that they finalized an agreement between Triton and Perdue Calumet for Engineering Technology.

School Clubs / Organizations

- Mrs. Sharris shared her positive experience with FIRST robotics. She noted that a club like FIRST helps build skills in a variety of classes, from Manufacturing, Design, to Marketing.

Sharing of Curriculum

- Members shared several lessons and projects. Members continued a professional discussion over lunch.