

**Secondary school & college educators general
comments about issues that affect their welding /
materials joining programs**

Secondary School

- Need for co-op or job shadowing during class time
- Contact of Dr. Rick Polanin @ Illinois Central College – has accomplished similar goals for Ill State Board of Ed. Considered to be a local authority on welding instruction
- Interested in more detailed and specific information on
 - Welding specs
 - Blueprints
 - Codes and standards

They do have videos from Hobart but they are boring

- Teach AutoCad is the best way to teach B/P reading

Want curriculum for fitting skills and tools – how to fit something and to check it

- Like to develop light plastic or wood samples that could be assembled per a print and to show B/P features
- Problems using welding programs as dumping grounds for low ability students, poor academic backgrounds, and poor attitudes.
- Product Mfg should be a major component of a welding curriculum
- Develop prints of fabrication projects
- Issues regarding students with disabilities and A students in same classes
- Recommend the AWS – ATF certification program
- Money to purchase new advanced systems such as robots & lasers
I wish you luck as there needs to be someone out there developing new curriculum



- High level instruction is great however, there needs to be an emphasis on basic math, measuring, and geometry are important to teach incoming students – tends to derail the class
- Amazed that Tech Prep has not included Welding

College

- Emphasis on reading, writing, and speaking in technical terms
Awfully broad area of educational development
Be sure to involve HS Counselors and Career Advisors
- Be honest with students about “good paying” jobs being hard to find in the welding industry
- Make sure students have practical hands-on experience, not just theory
- Share curriculums among colleges
- Make sure pipe welding is covered
- Need for a good welding fabrication course with
 - Laser levels
 - Thermal straightening
 - Structural steel
 - Pipefitting
 - Precision bending
 - Sheet metal
 - Distortion control
- Students come with very poor math skills – need basic geometry and trig
- Will you:
 - Start with the basics
 - Train the students to read, write, and do math
 - Eliminate students not qualified to proceed
 - Allow only the serious students to attend
 - Assess students prior to inclusion
- Standardized fabrication mock-up for purchase

- Precluded by an agreement with Lincoln Electric from purchasing Hobart materials. Want more reasonably priced materials other than from Coastal or Delmar
- Are there welding simulators that we can recommend?
- Teaching welding to Mech. Eng. students
Regular welding courses on hold due to lack of need in community
- Need more curriculum in the areas of
 - Fabrication
 - Sheet metal
 - Pipe fitting
 - Mechanics
- Need to get info about welding out to the general public via public service announcements etc.
- Focus on developing troubleshooting, problem solving, and reasoning skills in students. Too many curriculums teach this is the way to do it and do not emphasize the problem solving aspects of the job. Technicians need these skills to handle on the job realities
- Students should be shown the importance of material properties and how they influence a weld.
- How can we deal with the educators who do not care to give students a well rounded view of welding education and realities that exist in industry?
- Students tend to lack motivation on the well-rounded view of welding education.
- Students seem to lack skills in reading, writing, and math as they enter the programs.
-