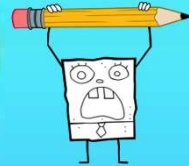


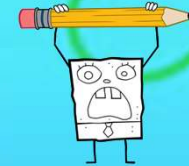
Identifying Teacher's Perceived Tools and Equipment Availability to Teach Welding Before and After a Professional Development Workshop

Jacob D. Ramos, Bradley. D Borges, Ryan Anderson, and Douglas Morrish.

Novice Ag Mech Teacher



Teacher attends workshop



Teacher better utilizes equipment



Introduction

- Tool and equipment availability affects the ability of teachers to meet curricular and industry standards.
- There is a concern that if tools and equipment are available, teachers are not properly trained to utilize these resources.

Purpose

- Identify teachers' perceived availability of tools and equipment to teach welding prior to and after attending, a five-day intensive professional development training.

Results

- Of 52 competencies from 7 constructs, each item saw a positive increase between pre and post assessments.

Grand Mean Construct Scores for the Tools and Equipment Available to Teach Welding Pre and Post Workshop

Constructs	Pre (n= 20)	Post (n = 19)	MD
Welding Basics	2.58	3.66	1.08
Shielded Metal Arc Welding	2.45	3.81	1.36
Gas Metal Arc Welding	2.48	3.63	1.15
Gas Tungsten Arc Welding	1.72	2.78	1.06
Flux Cored Arc Welding	1.61	3.24	1.63
Oxy-Acetylene Cutting & Welding	2.17	3.58	1.41
Plasma Cutting	2.33	2.82	0.49

Note.1 = None/Very Poor; 2 = Little; 3 = Good; 4 = Above Average; 5 = Excellent.

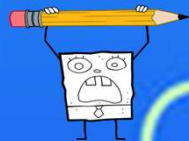
Methods

- Participants of the workshop aimed to improve and enhance their skills with regards to welding.
- Teachers were asked to rate the tools and equipment available pre and post workshop.

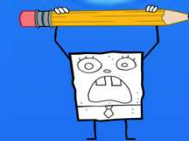
Conclusions

- Participants that completed the workshop reported a positive change in the availability of tools and equipment to teach welding without receiving any of these resources during the workshop.

Novice Ag Mech Teacher



Teacher purchases new equipment



Without proper training teacher cannot fully utilize equipment

