

**Resources for FFA Ag Mechanics Career Development Event**  
**Iowa State University**  
**June 6, 2013**

Note: This list is not exclusive to any other resources you might find. An attempt was made to find as many resources and references as possible, especially those that are web-based. I would highly recommend reviewing past baler and tractor skill sheets for the first two skills. Since we are using a variety of models and types the questions will not be altered much.

**Machinery and Equipment Systems (New Holland Round, Big Square, and Small Square Baler)** \*Note I will send out specific equipment items once they arrive

1. Product website:  
[http://agriculture.newholland.com/uk/en/Products/Balers/Pages/products\\_selector.aspx](http://agriculture.newholland.com/uk/en/Products/Balers/Pages/products_selector.aspx)  
Includes specifications, features, product literature and parts catalog.

**Industry and Marketing Systems (New Holland Tractors)** \*Note I will send out specific equipment items once they arrive

1. [http://agriculture.newholland.com/us/en/Products/Agricultural-Tractors/Pages/products\\_selector.aspx](http://agriculture.newholland.com/us/en/Products/Agricultural-Tractors/Pages/products_selector.aspx)  
Includes specifications, features, product literature and parts catalog.

**Energy Systems (Wiring a motor)**

1. <http://www.cdc.gov/nasd/docs/d001001-d001100/d001098/d001098.pdf>. Beware of electrical hazards, Michigan State University Extension (1993).
2. Wiring Handbook for Rural Facilities (MWPS-28, 3<sup>rd</sup> edition). Midwest Plan Service, Iowa State University, Ames, IA. (2006). <http://www.mwps.org/>
3. Electrical Applications for Agriculture. C.J. Bern and D.J. Olson, Wiley-Blackwell, ISBN-10: 0813821991 (2002).

**Structural Systems (Carpentry)**

1. Using hand tools: <http://www.doityourself.com/scat/handtools> (hammers, hand saws, measuring tools)
2. Identifying building parts:  
<http://ag.cusd3.net/Agric/AgTech/AgCarpen/BldgParts/Answers.htm>

### **Environmental and Natural Resource Systems (Surveying)**

1. DIFFERENTIAL LEVELING:  
<http://pasture.ecn.purdue.edu/~asm215/topics/difflevl.html>  
<http://www.tpub.com/engbas/14-11.htm>  
<http://art.ranken.edu/raftery/sas/studio2/differential.htm>
2. SURVEYING EQUIPMENT BASICS:  
[www.benmeadows.com/refinfo/techfacts/techpdf/survey\\_equipment\\_1360.pdf](http://www.benmeadows.com/refinfo/techfacts/techpdf/survey_equipment_1360.pdf)
3. INTERPRUT LEGAL LAND DESCRIPTIONS  
[http://www.michigan.gov/documents/IC4008\\_47977\\_7.pdf](http://www.michigan.gov/documents/IC4008_47977_7.pdf)

### **Computer Skill (Processing Systems – Energy requirements to move grain)**

1. How to use Microsoft Excel:  
[http://spreadsheets.about.com/od/excel101/a/Excel\\_beg\\_guide.htm](http://spreadsheets.about.com/od/excel101/a/Excel_beg_guide.htm). Note: Excel 2007 will be used (only features similar to Excel 2003 will be part of the skill).

### **Written Exam References**

1. See the above.
2. Additional references from Dean Byerly