WEL210 Print Reading/Math II Syllabus

Course Information

Credits
2
Campus
Washburn Institute of Technology
Address
5724 SW Huntoon
City/State/Zip
Topeka, Kansas 66604
Office Fax
785-273-7080

Description
This course is designed to teach a basic understanding of blueprints. The symbols used on blueprints give the designer a way to relay information to the fitter and welder. The graphic language on blueprints uses various symbols, lines, and notes to convey information. A blueprint is used by a welder to visualize the parts final form, to position and align various members, and to determine the type of joint preparation. It tells the welder what type of filler metal to use, where the weld metal is to be placed, the extent of welding and the size, and the contour and finish method for the welds. Prerequisite: WEL110 (Print Reading/Math I).

Textbooks
Blueprint Reading for Welders and Fitters – EW459.
(optional) Pipe Layout for Fitters and Welders – EW517.

Student Learning Outcomes:
A. Communicate effectively
B. Integrate technology
C. Learn effectively
D. Demonstrate cooperative teamwork skills
E. Apply safety in the workplace
F. Think critically and creatively
G. Demonstrate responsible work ethics

Competencies
1. Differentiate between lines on a blueprint drawing.
2. Demonstrate comprehension of layout according to blueprint.
3. Demonstrate proper use of layout tools.
4. Demonstrate the use of tool combination.
5. Analyze how part is built from blueprint.
6. Interpreting blueprints.
7. Compare the different views on the blueprint.
8. Analyze dimensions on a blueprint.
9. Utilize math skills needed to read and interpret prints.

**Guidelines for Success**

**Assessment Plan**
Assessment is an integral part of the educational process at Washburn Tech and accurate feedback is an important tool in continuously improving the institution’s technical programs. Students can expect to participate in assessment activities prior to entry into programs, within specific courses and following program completion for specific fields of study.

**Grading Rationale and Grading Scale**

<table>
<thead>
<tr>
<th>Rating Scale</th>
<th>Description</th>
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<tbody>
<tr>
<td>4 Skilled – can perform task with no additional training</td>
<td></td>
</tr>
<tr>
<td>3 Moderately skilled – has performed task during training program; limited additional training may be required</td>
<td></td>
</tr>
<tr>
<td>2 Limited Skill – has performed task during training program; additional training is required to develop skill</td>
<td></td>
</tr>
<tr>
<td>1 Exposed to content – is familiar with process; no opportunity to develop skill</td>
<td></td>
</tr>
<tr>
<td>0 No Exposure – not covered</td>
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**Directions:** Evaluate the student by checking the appropriate number to indicate the degree of competency reached. Rate each task to reflect employability readiness.

**Attendance**
Attendance is required.
Disability
The Special Support Services (SSS) Office is responsible for assisting in arranging accommodations and for identifying resources at Washburn Institute of Technology for persons with disabilities. Qualified students with disabilities MUST register and provide documentation with the office to be eligible for services. New requests for accommodations should be submitted two months or more prior to the date services should begin; however, contact the SSS Office as soon as a need may arise. Depending on the accommodation request, four to eight week lead time may be needed for timely and effective provision of services. SSS coordinates and assist in arranging services it deems appropriate of eligible students on a case-by-case basis.

If you are a student with a disability that may substantially limit your ability to participate in this class and believe you will need accommodations, it is your responsibility to contact:

Special Support Services Coordinator
Phone: 785-228-6356
E-Mail: ssscoordinator@washburn.edu