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| Elgin Community College  |
| Course Outline  |
| WEL 0120 Blueprint Reading For Welders **Instructor: David Reich**Phone: 847-214-7235Prerequisite: None Description: Prepares the student to interpret drawings as applied in the welding trade and to become familiar with welding symbols and their significance. 2 Credit Hours Book Required "Blueprint Reading for Welders", 6th edn, by Bennett, publ - Delmar \*\* Transparencies Course Outline A. The student will be introduced to basic drafting concepts. Understanding the basic types of lines, orthographic projection, sketching, notes, and specifications and interpreting dimensions are major areas of concern in the first unit.B. The student will become familiar with various structural shapes and how they are measured and designated in a bill of materials. Use of conventional breaks, and revolved sections, auxiliary views, partial views, development, sectioning, detail and assembly prints, abbreviations and various material, machining, and finish quality symbols will be covered.C. The significance of basic and complex welding symbols used with various types of drawings will be extensively covered during the second half of the semester. Abbreviations of welding processes and their location in a welding symbol will be discussed. Symbols designating pitch, root penetration, bead contour, and type of joint should be thoroughly understood after studying this unit.Outcomes The student will gain working knowledge of blueprints as demonstrated on quizzes and tests.The student will become familiar with structural shapes used to produce a variety of products, again tested in written form and during discussion periods.The student will learn the significance of basic and complex welding symbols, the learning to be measured by written and oral exams.Assessment Averaging of three tests and homework assignments will result in final grade.  |

This course meets the agreed upon terminal objectives for the Welding Program.

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