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| Elgin Community College  |
| Course Outline  |
| WEL102 Welding IIInstructor: David ReichPhone: 847-214-7235Prerequisite: WEL 101 or concurrent enrollment in WEL 101 or consent of instructor Advanced techniques and skill improvement in oxyacetylene welding and arc welding. The lab experiences in basic MIG and TIG (Heliarc) welding will be provided. An introduction to weld testing will be included. 4 Credit HoursTextbooks Required "Gas Metal Arc Welding," Hobart Brothers Short Circuit Metal Transfer," Miller Electric GMAW Welding Made Simple," Weldtrain Gas Tungsten Arc Welding," Hobart Brothers Gas Metal Arc Welding Troubleshooting," Miller Electric Gas Metal Arc Transfers," Miller Electric Course Outline A. Out-of position Arc WeldingB. Introduction to Gas Metal Arc WeldingC. Introduction to Gas Tungsten Arc WeldingD. Water-tight WeldsE. Welder Qualifications, Flat Positions, SMAWCourse Content Outcomes Gaining proficiency in out-of-position arc weldingGaining rudimentary skills in GMAW & GTAWBe able to pass SMAW qualifications in flat positionStudent Assessment28 required welds to be averaged, mid-term test weight of one weld, SMAW flat position qualification test with weight of 4 welds. This course meets the agreed upon terminal objectives for the Welding Program.“This workforce solution was funded by a grant awarded by the U.S. Department of Labor’s Employment and Training Administration. The solution was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timelines, usefulness, adequacy, continued availability, or ownership. This solution is copyrighted by the institution that created it. Internal use, by an organization and/or personal use by an individual for non-commercial purposes, is permissible. All other uses require the prior authorization of the copyright holder.” |