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| Elgin Community College |
| Course Outline |
| WEL102 Welding II Instructor: David Reich  Phone: 847-214-7235  Prerequisite: 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 Hours  Textbooks 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 Welding B. Introduction to Gas Metal Arc Welding C. Introduction to Gas Tungsten Arc Welding D. Water-tight Welds E. Welder Qualifications, Flat Positions, SMAW  Course Content Outcomes  Gaining proficiency in out-of-position arc welding  Gaining rudimentary skills in GMAW & GTAW  Be able to pass SMAW qualifications in flat position  Student Assessment  28 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.” |