

# 16 Welding Training Courses Welders Ebooks Arc Mig Welding Complete Package

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Electric Arc II - Underwater Cutting with Oxyfuel III - Metallizing IV - Flame Cutting Steel and Cast Iron V - Flame Treating Metal VI - Cutting and Hard Surfacing with the Electric Arc VII - Armor Plate Welding and Cutting VIII - Pipe Welding IX - Welding Cast Iron, Cast Steel, Carbon Steel, and Forgings X - Forge Welding XI - Heat Treatment of Steel XII - Other Welding Processes 13 - DESTRUCTIVE AND NONDESTRUCTIVE TESTING I - Performance Testing II - Visual Inspection and Corrections III - Physical Testing APPENDIX A - REFERENCES APPENDIX B - PROCEDURE GUIDES FOR WELDING APPENDIX C - TROUBLESHOOTING PROCEDURES APPENDIX D - MATERIALS - BRAZING, WELDING, SOLDERING, CUTTING, METALLIZING APPENDIX E - MISCELLANEOUS DATA GLOSSARY 2. Welding Operations Part I (113 pages) ELECTRODES CLASSIFICATION AND INTENDED USES AUTOMOTIVE WELDING PROCESSES MATERIALS AND IDENTIFICATION PROCESSES METHODS OF DESTRUCTIVE AND NONDESTRUCTIVE TESTING OF WELDS TROUBLESHOOTING PROCEDURES TYPES AND TECHNIQUES OF JOINT DESIGN THE THEORY, PRINCIPLES, AND PROCEDURES OF WELDING ARMOR PLATE Task 1: Describe the processes for identifying electrodes by classification, and intended uses; and the automotive welding processes, materials, and identification processes; and the types and techniques of joint design Task 2: Describe the theory, principles, and procedures of welding armor plate; and methods of destructive and nondestructive testing of welds, and troubleshooting procedures Practice Exercise 1 Answers to Practice Exercise 1 REFERENCES 3. Welding Operations Part II ( 80 pages) INERT GAS WELDING PRINCIPLES EQUIPMENT AND SAFETY PRECAUTIONS GAS METAL-WELDING PRINCIPLES OPERATIONS AND EQUIPMENT NOMENCLATURE THE PROCEDURES FOR TROUBLESHOOTING WELDING EQUIPMENT DETERMINING METHODS OF REPAIR Task 1: Describe the inert gas and gas metal-arc welding principles, operations, equipment nomenclature, and safety precautions Task 2: Describe the procedures for troubleshooting welding equipment and determining methods of repair Practical Exercise 1 Answers to Practical Exercise 1 REFERENCES 4. Welding Theory Symbols (33 pages) Task 1: Interpret welding symbols and describe the use of welding symbols on shop drawings Practical Exercise 5. Fundamentals of Machine Tools (293 pages) Chapter 1: Introduction to the Machine Shop Chapter 2: Properties, Identification, and Heat Treatment of Metals Chapter 3: Portable Machine Tools Chapter 4: Drilling Machines Chapter 5: Grinding Machines Chapter 6: Sawing Machines Chapter 7: Lathes Chapter 8: Milling Operations Chapter 9: Milling-Grinding-Drilling and Slotting Attachment (Versa-Mil) 6. Milling

Machine Operations (81 pages) Lesson 1: MILLING MACHINE OPERATIONS Task 1: Describe the setup, operation, and adjustment of the milling machine Task 2: Describe the types, nomenclature, and use of milling cutters Practical Exercise 1 Answers to Practical Exercise 1 REFERENCES 7. Metal Properties, Characteristics, Uses and Codes (98 pages) Lesson 1: THE PHYSICAL AND MECHANICAL PROPERTIES OF VARIOUS METALS, AND USE OF THE HARDNESS TESTER, CHEMICAL ANALYSIS, AND BENCH GRINDER TO IDENTIFY VARIOUS METALS Task 1: Describe the processes for identifying the physical and mechanical properties of various metals Task 2: Describe the processes for using the hardness tester, chemical analysis, and bench grinder to identify various metals Practical Exercise 1 Answers to Practical Exercise 1 REFERENCES 8. Principles of Drafting and Shop Drawing (117 pages) Lesson 1: DRAFTING AND SHOP DRAWING FUNDAMENTALS Task 1: Describe orthographic projection theory and freehand drafting Task 2: Describe drafting instruments and the fundamentals of geometric construction Task 3: Describe the theory and fundamentals of pictorial drawings: oblique and isometric projection Task 4: Identify shop terms, abbreviations, and dimensioning elements Task 5: Interpret a shop drawing Practical Exercise 1 Answers to Practical Exercise 1 REFERENCES 9. Machine Shop Calculation (127 pages) Lesson 1: ADDITION, SUBTRACTION, MULTIPLICATION, AND DIVISION OF FRACTIONS AND DECIMALS; AND CONVERSION OF FRACTIONS TO DECIMALS AND DECIMALS TO FRACTIONS Task 1: Describe the processes for adding, subtracting, multiplying, and dividing fractions Task 2: Describe the processes for converting fractions to decimals and decimals to fractions; and for adding, subtracting, multiplying, and dividing decimals Practical Exercise 1 Answers to Practical Exercise 1 Lesson 2: CONVERSION OF LINEAR MEASUREMENTS FROM THE ENGLISH TO THE METRIC SYSTEM AND FROM THE METRIC TO THE ENGLISH SYSTEM; AND SOLVING PROBLEMS USING RATIO, PROPORTION, AND TRIGONOMETRY Task 1: Describe the processes for converting linear measurements from the English to the metric system and from the metric to the English system Task 2: Describe the processes for solving problems using ratio and proportion Task 3: Describe the processes for solving problems using trigonometry Practical Exercise 2 Answers to Practical Exercise 2 REFERENCES 10. Use and Care of Hand tools and Measuring Tools (282 pages) Lesson 1: Safety Procedures for Using Handtools and Power Tools Task 1: Describe the safety procedures for using handtools and power tools Practical Exercise Lesson 2: Use and Care of Handtools Task 1: Describe the procedures for the use and care of

non-edged handtools Task 2: Describe the procedures for the use and care of handtools Practical Exercise Lesson 3: Use and Care of Measuring Tools Task 1: Describe the procedures for the use and care of measuring tools Practical Exercise 11. Metal Body Repair (108 pages) Lesson 1: OPERATIONS REQUIRED TO REPAIR DAMAGED VEHICLES AND COMPONENTS Task 1: Describe the operations required to repair damaged vehicles and components Practical Exercise 1 Answers to Practical Exercise 1 Lesson 2: OPERATIONS REQUIRED FOR GLASS, RADIATOR, AND FUEL TANK REPAIR Task 1: Describe the operations required for proper glass repair Task 2: Describe the operations required for proper radiator repair Task 3: Describe the operations required for proper fuel tank repair Practical Exercise 2 Answers to Practical Exercise 2 REFERENCES 12. Lathe Operations (140 pages) Lesson 1: THE LATHE USES AND SAFETY; USES, REPAIR, AND ADJUSTMENT OF LATHE ATTACHMENTS; AND VARIOUS THREAD FORMS, USES, CALCULATIONS, AND MACHINING TECHNIQUES TASK 1: Describe the uses of the lathe, to include safety TASK 2: Describe the uses, repair, and adjustment of lathe attachments TASK 3: Describe the various thread forms, uses, calculations, and machining techniques Practical Exercise 1 Answers to Practical Exercise 1 REFERENCES 13. Shop Practices and Safety (45 pages) I: THE SHOP II: TOOLS III: FIRST AID Practice Exercise 14. Band Saw Operations (101 pages) Lesson 1: USES OF THE BANDSAW Task 1: Describe the use of the bandsaw machine Practical Exercise 1 Answers to Practical Exercise 1 Lesson 2: BANDSAW MAINTENANCE AND TROUBLESHOOTING Task 1: Describe the methods used to repair and adjust the bandsaw Task 2: Describe the procedures for troubleshooting the bandsaw Practical Exercise 2 Answers to Practical Exercise 2 REFERENCES 15. Precision Measuring and Gaging (96 pages) Lesson 1: PRECISION GAGES AND MEASURING TOOLS, AND TYPES OF FITS, TOLERANCES, AND ALLOWANCES TASK 1: Describe the different types of fits, tolerances, and allowances used in the machinist trades TASK 2: Describe the proper use and care of precision gages and measuring tools Practical Exercise 1 Answers to Practical Exercise 1 REFERENCES 16. Precision Measuring Instruments (50 pages) LESSON 1: CARING FOR, INTERPRETING READINGS, AND TAKING MEASUREMENTS WITH A VERNIER CALIPER, AN OUTSIDE MICROMETER, AND A DEPTH MICROMETER TASK 1: Care for a vernier caliper, an outside micrometer, and a depth micrometer TASK 2: Interpret readings on a vernier caliper, an outside micrometer, and a depth micrometer TASK 3: Take measurements with a vernier caliper, an outside micrometer, and a depth micrometer Practice Exercise 1 Answers to Practice Exercise 1 Do NOT

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