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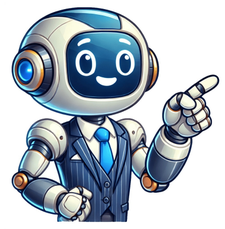

Trade Test Preparation Curriculum Outline: 1) Trade Test Preparation Plumbing It covers the following modules: 1. Install a basin 2. Install a GMS Gutter and shoe 3. Cut, bend and assemble copper piping 4. Install a push through geyser 5. Make and install a GMS Chimney Flashing 6. Install a shower 7. Install a water closet 8. Install a drainage system 9. Fabricate and fit a GMS vent pipe flashing Intensive and specialized training in both theory and practical of the above modules will be conducted according to the specification and requirements of the NAMB curriculum. 2) Trade Test Preparation Welding Prepare and Fillet weld mild Steel plates and ferrous materials as specified on drawing and welding and welding procedure specifications (WPS) Shielded Metal Arc Welding – 6G (Pipes) Oxy-Acetylene gas welding (OAW) Bud Weld Horizontal 2G Oxy-acetylene Welding (Mild Steel) Gas Metal Arc Welding (GMAW) Weld ferrous and non ferrous materials Mild Steel 2F Shielded Metal Arc Welding (SMAW) Stainless steel Ferrous materials Manual Metal Arc Welding (MMAW) SMAW & MMAW 3F Vertical up SMAW & MMAW 2G Horizontal Oxy-acetylene gas cutting and grinding GTAW (Gas Tungsten Arc Welding) - & GMAW – Gas Metal Arc Welding Ferrous and non ferrous material 6G & 3G & 3F Oxy-Acetylene Brazing (OAB) GTAW Aluminium 3) Trade Test Preparation Electrical 1. Single phase forward/reverse starter (various controls and motors). 2. Three phase forward/reverse starter (various control and motors). 3. Star/delta and Forward/reverse star/delta starter. 4. Sequence starters (automatic, semi-automatic and manual). 5. Motor Test (single and three phase, slip ring). 6. Cable Test (1000V). 7. Energy panel (single and three phase). 8. Load balancing panel (240V and 400V loads). 9. Current and Voltage transformer panel using selector switches. 10. Faultfinding on various star/delta starters. 11. Faultfinding on various resistance starters. 12. Faultfinding on various auto transformer starters. 13. Faultfinding on dual speed motors (rotary and contactor switching). 14. Construction Work All work must be done according to national safety standards and electrical regulation 4) Trade Test Preparation Boilermaking Boilers heat water or other fluids under extreme pressure to generate electric power and to provide heat. Large tanks and vats are used to process and store chemicals, oil, beer and hundreds of other products. Boilermakers may help erect and repair air pollution abatement equipment, blast furnaces, water treatment plants, storage and process tanks, and smokestacks. Boilermakers also install refractory brick and other heat-resistant materials in fireboxes or pressure vessels. Some install and maintain the huge pipes used in dams to send water to and from hydro-electric power generation turbines. The Boilermakers are skilled in reading and interpreting drawings in the manufacturing process of various metal based components. The artisan must have good welding skills and understand the way metal will respond when heat is applied to it by the type of welding being applied; the understanding of malleability of steel is of the highest importance. The artisan must have good working knowledge of rollers bending machines welders and grinders as well as measuring equipment and methods. Baseline Risk Assessment Oxy – Acetylene Cutting & Welding Grinding And Tempering Arc Welding Plate Forming Pipe Developing & Fabrication Contour Marking MIG & TIG 5) Trade Test Preparation Mechanical Fitter A fitter is an engineering specialist who installs, maintains and/or repairs machines, plant and equipment for a large variety of industries such as manufacturing, aeronautical, maritime, mining, food processing and medical services (e.g. hospitals). A Mechanical Fitter is responsible for fitting and assembling parts made from metal and other materials to make production machinery. He lays out, positions and secures parts and assemblies according to specifications, welds components using electricity or gas and installs or repairs equipment such as lead pipes, valves, floors and tank linings. They work from detailed drawings using hand and machine tools. Precise measuring is necessary. Their working environment can be very noisy, dirty or dangerous. ENGINEERING DRAWINGS Freehand drawing Code of practice for engineering drawing (symbols and abbreviations) Drawing instruments and equipment Dimensioning methods Isometric drawings Assembly and detailed drawings TOOLS, EQUIPMENT, SCREWS FASTENERS Engineering tools and equipment Types and applications of screw threads Types and function of locking devices and fasteners WELDING AND MATERIALS Engineering materials Principles, equipment & methods of arc welding, gas cutting, brazing & silver soldering SEALS, PUMPS, VALVES Static and dynamic seals and gaskets Types and application of valves Types and application of pumps Types and functions of conveyors MAINTAIN AND ALIGN DRIVES Drives (direct and indirect) Terminology of drives Functions and working principle of drives GEARBOXES, BRAKES AND CLUTCHES Mechanical working principles, types and applications of gearboxes Mechanical working principles, types and applications of clutches Mechanical working principles, types and applications of brakes LUBRICATION AND BEARINGS Mechanical working principles, types and applications of lubrication systems Types and application of bearings PNEUMATICS AND HYDRAULICS Mechanical working principles, types and applications of hydraulic systems Mechanical working principles, types and applications of pneumatic system DIAGNOSTIC TECHNIQUES Diagnostic equipment Diagnostic techniques Diagnostic testing 6) Trade Test Preparation Fitter and Turner ENGINEERING DRAWINGS Freehand drawing Code of practice for engineering drawing (symbols and abbreviations) Drawing instruments and equipment Dimensioning methods Isometric drawings Assembly and detailed drawings TOOLS, EQUIPMENT, SCREWS FASTENERS Engineering tools and equipment Types and applications of screw threads Types and function of locking devices and fasteners WELDING AND MATERIALS Engineering materials Principles, equipment & methods of arc welding, gas cutting, brazing & silver soldering SEALS, PUMPS, VALVES Static and dynamic seals and gaskets Types and application of valves Types and application of pumps Types and functions of conveyors MAINTAIN AND ALIGN DRIVES Drives (direct and indirect) Terminology of drives Functions and working principle of drives GEARBOXES, BRAKES AND CLUTCHES Mechanical working principles, types and applications of gearboxes Mechanical working principles, types and applications of clutches Mechanical working principles, types and applications of brakes LUBRICATION AND BEARINGS Mechanical working principles, types and applications of lubrication systems Types and application of bearings PNEUMATICS AND HYDRAULICS Mechanical working principles, types and applications of hydraulic systems Mechanical working principles, types and applications of pneumatic system DIAGNOSTIC TECHNIQUES Diagnostic equipment Diagnostic techniques Diagnostic testing CONVEYORS LUBRICATION AND BEARINGS BLOCKS - MARKING OFF KEYS AND LOCKING DEVICES MAINTAIN AND ALIGN DRIVES (V BELTS & GEAR DRIVES) Trade Test Requirements: Candidates who have not gone through a formal artisan learning program but possess relevant years of work experience in the related trade may be granted access to a trade test if they have completed: N2 Certificate including the relevant trade theory subjects and a minimum of 3 years relevant work experience; or Technical trade theory programs quality assured by a SETA deemed to be at NQF level 3 and a minimum of 3 years relevant work experience; or Relevant Engineering NCV at NQF level 3 and a minimum of 3 years relevant work experience; or Relevant engineering NC(V) 4 plus completion of all relevant work experience modules and a minimum of 3 years relevant work experience; or Technical Grade 12 with Maths, Science and related trade theory subject and a minimum of 3 years relevant work experience; or Grade 9 and a minimum of 3 years relevant work experience; or Relevant (directly related to the trade theory subjects) N6 certificate or National Technical Diploma (T,S or N stream.) with 3 years relevant work experience. - copy of service letter from your employer, confirming working experience in the relevant field for 3 or more years experience (All applicants must have 3years experience - irrespective of qualification: gr 9/10/11/12/N1/N2/N3/N4/N5/N6/Diploma) (If foreign national, please ensure that you have the relevant work experience in South Africa, SETA only verifies work experience completed in SA) Documents to compile: - Certified ID copy, (If foreign national: x3 certified passport copies, x3 certified residential visa copies, x3 certified copies of student/work permit) - Certified school certificate, and x 1 certified copy thereof, (minimum Grade 9), (If foreign national: Your qualification need to be converted by SAQA) - Service letter from your employer / Affidavit, confirming working experience in relevant field for 3 or more years experience (minimum requirements), (If foreign national, please ensure that you have the relevant work experience in South Africa, SETA only verifies work experience completed in SA) - CV - Original completed trade test application form See Below download link -Original completed admission form See below download link We offer a number of training programs:Preparation for Trade Test (15 Days) ARPL Assessment (1 Day) Trade Test (2 Days) Free Solar Geyser & Heatpump Course3 Years Institutional Training On the Job TrainingOne Week Learn the basics Build up your knowledge Fast-paced, high quality learning Obtain your certificate fasterPreparation for Trade Test (20 Days) ARPL Assessment (1 Day) Trade Test (2 Days) Free Solar Geyser & Heatpump Course3 Years Institutional Training On the Job TrainingOne Week Learn the basics Build up your knowledge Fast-paced, high quality learning Obtain your certificate fasterPreparation for Trade Test (20 Days) ARPL Assessment (1 Day) Trade Test (2 Days) Free Solar Geyser & Heatpump Course3 Years Institutional Training On the Job TrainingOne Week Learn the basics Build up your knowledge Fast-paced, high quality learning Obtain your certificate faster We invite all plumbing, electrical and welding candidates to come view our fully equip workshop. We are an accredited (QCTO) Trade Test Centre for plumbing and electrical, and further preparation centre for welding and boilermaking. The Trade examination is based on all practical modules, which requires each installation to be completed on step by step methods. Our workshop is equip with all material and tools to complete these installations, and allows for rotation from one cubicle to the next. Make an appointment today to come and view... We provide Trade Test and preparation ON SITE.... We've detected that JavaScript is disabled in this browser. Please enable JavaScript or switch to a supported browser to continue using x.com. You can see a list of supported browsers in our Help Center. Help Center The Welding Trade Test Preparation course is for the Welder with experience that would like to write their trade test. This course will ensure that you are well prepared before writing the test by practically testing all aspects of the trade, identifying the gaps and ensuring that those gaps are filled. You will learn, in a practical workshop environment from industry experts. All modules are done in practice in a fully equipped workshop allowing you to immediate use your practical skills rather than a theoretical environment. On completion of this course, you will receive your Section 26D Red Seal Certificate that is recognized in 156 countries worldwide. 1) ARC Welding Modules for the course include: 5 days MMA Welding for Pipefitting Equipment Used in MMA Welding Hazards and Safety Precautions Associated With MMA Welding Welding Techniques MMA Welding Electrodes Identify Weld Defects and Their Causes Weld Symbols Weld various Fillet and Groove weld positions / joints. Weld a vertical-up butt joint. Weld an overhead fillet joint. Weld 1G, 2G, 5G, 4G positions . Requirements A copy of the id Admission form PPE 2) MIG Welding (CO2) Modules for the course include: 8 days Use Metal Inert Gas (MIG) welding to weld different types of metals. Use Metal Inert Gas welding (MIG) equipment to weld various welding positions. Short description of the most common welding processes GMAW equipments and consumables Joint and Groove designs Welding position and torch manipulations Weld defects safety and precautions Requirements: A copy of the id Admission form PPE 3) TIG Welding Modules for the course include: 8 days TIG Overview Power Sources Types of Welding Current used for TIG Characteristics of Current Types for Gas Tungsten Arc Welding TIG Hand piece (TIG Torch) Selecting the Correct Torch Nozzle Gas Lens Benefits Regulators Connection Diagrams Tungsten Selection and Preparation Tungsten Colour Code and Proper Torch Use TIG Wires Shielding Gas Shield Gas Selection and Use Typical Manual GTA (TIG Welding Parameters) Guide for Shield Gas Flows, Current Settings and Cup Selection Correct Torch and Rod Positioning Pulsed TIG Personal Protection Recognizing Your Tungsten Operator Inspection for Weld Quality TIG Troubleshooting Guide Requirements: A copy of the id Admission form PPE 4) PLATING TORCH CUTTING & Gas Welding Modules for the course include: 5 days Principles of Operation and Welding safety Equipment Setup, Operation, and Shut Down Welding Applications Weld and Joint Design Welding Procedure Variables Pre-weld Preparations Welding Discontinuities and Problems Understand torch lighting procedures. Set different flames. Identify cutting techniques. Cut different profiles. Requirements: A copy of the id Admission form PPE 5) BEGINNER TO ADVANCE Welding Course Modules for course include: 28 days