

Manual Metal Arc Welding (Introduction)

An introduction to arc welding for students with little or no welding experience.

The course includes:

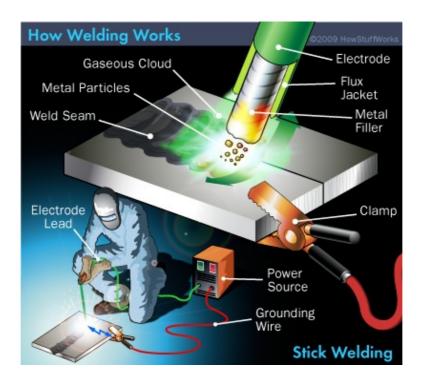
- Safety precautions
- · Introduction to arc welding
- Arc Welding Faults
- Types of Joints
- Buying an Arc Welder
- Types of materials to weld.
- · Theoretical and Practical training in metal arc welding

Te Runanga O Te Whanau.

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INTRODUCTION

ARC WELDING

Overview

During this part of your training you will be able to learn and practice the skills required to achieve competency in basic arc welding.

The goal of the course is to reach a skill level that will allow you to be a confident DIY arc welder with a thorough understanding of safety aspects of arc welding.

The primary goal of all people using welding equipment whether it is a small home repair or a industrial project should be safety.

So knowledge of Welding Safety will be the first goal of your training and although chapter content in this book will cover this. It has relevance in all the lessons you will have on welding. If you do not understand the how to achieve your skills safely you should wait until a Tutor instructs you how to proceed.

The next area of learning will be to understand the 'welding terms', parts of welding equipment and types of metals. This knowledge helps you understand the language of welding. Without this knowledge we cannot understand the requirements to achieve practical skills as they often refer to words and terms we have never heard as a novice welder.

Setting up your equipment is the next area of learning. We need to know several basic pieces of equipment. The equipment falls into what you need for the actual welding and what you need to stay safe.

Before we set out on a practical demonstration of arc welding we have to understand the 'rules of the workshop' these rules have much to do with avoiding accidents and general safe tool handling while welding

Mild steel welding will cover everything the beginner needs to know to start simply welds with the most basic of metals.

Electrode Technology will allow the beginner welder to understand the different welding rods available you will learn to control the direction and speed of a rod (stick) under different welding conditions.

Finally you will learn and practice the skills of arc welding and become proficient as a DIY arc welder.

Kaua e rangiruatia te ha o te hoe; e kore to tatou waka e u ki uta

Te Runanga o Te Whanau



