

Term 2: Introduction to fabrication and servicing

<u>Unit 1</u>	RED	AMBER	GREEN	Do you need further support following DIRT?	Final rating		
					R	A	G
A. Introduction to fabrication and servicing							
Introduction into the practical skill of welding							
Understanding the safe working practices in the welding workshop.							
Perform basic welding joints e.g. T fillet and butt joint.							
DIRT 1: explain the working procedure when performing welding tasks.							
Start fabricating the tool makers clamp							
Continue making the tool makers clamp							
Finish the tool makers clamp to a high standard							
DIRT 2: Explain in depth the steps taken to get to the finished product of the tool makers clamp.							
Revisit the lift equipment and go through procedure of removing wheels.							
Go through procedure to remove brake pads and check them							
Look at the other form of brake pads (Break shoes) and how to measure them.							
DIRT 3: explain the method of safely removing brake pads and list the equipment required.							
Start going through the teams for gravity go-carts							
Brain storm ideas and come up with a basic design							
Produce a dimensioned and detailed drawing of the go-cart							
Produce a step by step guide of how you are going to create the go-cart and how it will work.							
Summative Assessment – short/ long answered questions for learning outcome A- All topics listed above.							

Percentage	I can ...	Prove it!- check your book
	<p>I am able to work safely and effectively without presenting danger to myself or others. I understand how to correctly operate equipment and able to identify tools.</p> <ul style="list-style-type: none"> • <i>Use basic techniques when welding</i> • <i>Consider the surrounding team members when performing group tasks</i> • <i>Explain how to strengthen your go-cart while adding minimum weight.</i> 	<p>Explain how to correctly use the welding machines and be able to justify why your weld is good or bad.</p> <p>:Key :</p> <div style="display: flex; align-items: center;"> <div style="width: 20px; height: 10px; background-color: blue; margin-right: 5px;"></div> LPA <div style="width: 20px; height: 10px; background-color: yellow; margin-right: 5px; margin-left: 10px;"></div> MPA <div style="width: 20px; height: 10px; background-color: green; margin-left: 10px;"></div> HPA </div>

L2M/D



The fabrication exercises go towards part of your final grade. You will need to demonstrate that you are able to confidently and confidently use tools and work in a safe manor.

Demonstrate the correct working practices shown to you and complete work confidently and competently.