

Welder - Gas Tungsten Arc(TIG) Portable

Activity		Type Of Service				
		A	B	C	D	E
1	<p>ELECTRICAL - GENERAL</p> <ul style="list-style-type: none"> <li>- Inspect for damage to swith gear, wiring and/or conduit.</li> <li>- If welder is operated on a circuit protected by a portable RCD check test status of RCD.</li> </ul>				Y	
2	<p>RESISTANCE TEST</p> <ul style="list-style-type: none"> <li>- Resistance test insulation and earthing.</li> </ul>			Y	Y	
3	<p>REGULATOR</p> <ul style="list-style-type: none"> <li>- Check that the regulator's rated maximum inlet pressure is suitable for the gas supply kPa.</li> <li>- Check that the contents gauge functions correctly and returns to zero.</li> <li>- Check the flowmeter / flowgauge is designed for TIG welding.</li> <li>- Check that the flowgauge functions correctly when the control knob is adjusted and released, or the flowmeter functions correctly when the adjustment knob is adjusted.</li> <li>- Leak test the contents gauge where it enters the regulator.</li> <li>- Leak test the flow gauge where it enters the regulator.</li> <li>- Leak test the spigot where it enters the cylinder valve and regulator.</li> <li>- Leak test the outlet connection where it exits the regulator.</li> <li>- Leak test hose connections at the regulator end.</li> <li>- Inspect for visual damage and report it if it compromises its safe operation.</li> <li>- Check the flowrate at the torch end with a hand held flowmeter and compare it with the flow that is shown on the flow gauge or flowmeter on the regulator. Replace regulator / flowmeter if discrepancy excessive.</li> </ul>		Y	Y	Y	
4	<p>HOSES</p> <ul style="list-style-type: none"> <li>- Check hose for cracking at fittings and over its lenth. Replace if necessary.</li> <li>- Leak test hose fittings.</li> </ul>		Y	Y	Y	
5	<p>TIG Torch</p> <ul style="list-style-type: none"> <li>- Check operation of gas solenoid (if fitted).</li> <li>- Check operation of gas valve (if fitted).</li> <li>- Check torch cable for damage and high frequency leakage.</li> <li>- Check handpiece for wear, cracks, damaged insulation or other damage.</li> </ul>		Y	Y	Y	
6	<p>WORK LEAD</p> <ul style="list-style-type: none"> <li>- Inspect for damage to cable insulation.</li> <li>- Check cable size compared to machine capacity.</li> </ul>		Y	Y	Y	
7	<p>WORK CLAMP</p> <ul style="list-style-type: none"> <li>- Check sping tension and condition of jaws.</li> <li>- Inpect cable to lug and condition of lug.</li> <li>- Check lug to clamp tightness.</li> </ul>		Y	Y	Y	
8	<p>TERMINALS</p> <ul style="list-style-type: none"> <li>- Inspect insulation of terminals.</li> <li>- Check terminals for tightness.</li> <li>- Check lug condition.</li> </ul>		Y	Y	Y	

**Disclaimer** -This TDS is intended to provide guidance only to support Preventative Maintenance servicing activities. All TDS users are encouraged to read and understand the full [Conditions of Use](#) provided on the final page of this document and on the DPTI website.

For more information please contact the applicable Facilities Management Service Provider.



Government of South Australia  
Department of Planning,  
Transport and Infrastructure

Download Date: 22/12/2020

Welder - Gas Tungsten Arc(TIG) Portable

Last Issue Date: 30/09/2015		Type Of Service				
		A	B	C	D	E
Activity		A	B	C	D	E
9	WELDING SCREENS - Inspect welding screens for damage and suitable for purpose. - Check welding bays are of non reflective finish.		Y	Y	Y	
10	WELDING HELMET - Check chipping lens is used and fitted in correct position. - Check CR39 cover plate lens is used and fitted in correct position. - Check welding filter suitable for purpose (shade matches process and amperage).		Y	Y	Y	
11	FUME EXTRACTION - Check fume extraction unit is operating. Refer to ME23 for maintenance on the welding exhaust system.				Y	
12	Record all results in the log book.				Y	

**Special Comments and Technical Data**

---

B SERVICE MONTHLY & FOR DECS A SITE RESPONSIBILITY.  
 C SERVICE 3 MONTHLY AND APPLIES ONLY TO PORTABLE WELDERS.  
 D SERVICE ANNUAL  
 USE EQ031 FOR THE NON PORTABLE TYPE.

**Disclaimer** -This TDS is intended to provide guidance only to support Preventative Maintenance servicing activities. All TDS users are encouraged to read and understand the full [Conditions of Use](#) provided on the final page of this document and on the DPTI website.

*For more information please contact the applicable Facilities Management Service Provider.*



Government of South Australia  
Department of Planning,  
Transport and Infrastructure

**Download Date:** 22/12/2020

# Conditions of Use

A TDS should be used as a generic guide for Facilities Management Service Providers (FMSP) to deliver Facilities Maintenance Services, specifically Preventative Maintenance in accordance with the DPTI [Agency Work Procedure Manual](#).

Users of a TDS should familiarise themselves with the following **Conditions of Use**:

1. You use the information and data contained in any TDS published by DPTI at your sole risk. DPTI-AGFMA does not have the expertise to provide complete or accurate technical data schedules and provides these technical data sheets merely as a starting point and/or guide.
2. If you rely on the information in a TDS you are responsible for ensuring, by independent verification, its accuracy, currency and completeness. DPTI cannot guarantee that the information contained in a TDS meets the standards or requirements of legislative requirements.
3. A TDS is not an exhaustive list of tasks or obligations that may be required and is generally generic in nature. DPTI does not oblige the user of a TDS to rely on it to the exclusion of other sources of information. For example, manufacturer's requirements may need to be followed for additional and / or alternative tasks and for additional and / or alternative servicing frequencies. You should always check the primary source of information such as the Australian Standards, manufacturer's specifications, legislation and other standards before undertaking any work to which a schedule may apply.
4. You must apply appropriate risk management principles and carry out all tasks in accordance with obligations under the [Work Health and Safety Act 2012](#).
5. You must not use a TDS unless you meet the specific competency requirements for preventative maintenance servicing works and are capable of applying the TDS to your trade or area of expertise. A TDS is only to be used by people who are specifically instructed by DPTI to use them and only for work undertaken in South Australia.
6. DPTI, its agents, instrumentalities, officers and employees make no representations, express or implied, as to the accuracy of the information, the data contained in a TDS or the suitability of a TDS for a particular purpose.
7. DPTI does not provide legal advice. DPTI accepts no liability, howsoever arising, for any loss resulting from the use of a TDS and any information or data or reliance placed on them.
8. DPTI may change information and data in a TDS without notice.
9. DPTI may revise this disclaimer at any time by updating these Conditions of Use.