

**Equipment Requirements for OFTEC Assessment**  
**With effect from 11/05/2021**

This document is a list of the minimum requirements for facilities and necessary equipment, which are to be made available by the Assessment Centre for the area of Assessment concerned. (Referred to in document RCP3)

<b>Assessment</b>	<b>Assessment Equipment</b>	<b>Assessment Literature</b>
<p><b>OFT10-101</b></p> <p>Domestic/Light Commercial Servicing and Commissioning - Pressure Jet</p> <p><b>(See notes 1 &amp; 2)</b></p>	<ul style="list-style-type: none"> <li>• 1 x Floor standing open flued oil-fired pressure-jet appliance</li> <li>• 1 x Floor standing balanced flued oil-fired pressure-jet appliance</li> <li>• 1 Wall mounted balanced flue type oil fired pressure-jet appliance (<i>this appliance may be omitted if one of the floor standing appliances is piped with a single suction supply line via a de-aerator</i>)</li> <li>• Voltage indicator with fused or resistance leads</li> <li>• Suitable electrical test facility to enable demonstration of competency for safe electrical isolation (<i>oil fired appliance may be used</i>)</li> <li>• Smoke Gun &amp; papers</li> <li>• Equipment for measuring flue draught</li> <li>• Fully calibrated electronic combustion analyser</li> <li>• Pressure &amp; Vacuum Gauges complete with manifolds</li> <li>• Three non-transparent containers, each containing varying quantities of kerosene and water</li> <li>• Water finding paste and spatula</li> <li>• Suitable hand tools</li> </ul>	<ul style="list-style-type: none"> <li>• OFTEC Technical Book 1</li> <li>• OFTEC Technical Book 2</li> <li>• OFTEC Technical Book 3</li> <li>• OFTEC Technical Book 4</li> <li>• OFTEC Domestic Commissioning &amp; Servicing Report Pad CD/11</li> <li>• Appliance installation and servicing instructions</li> </ul>

<p><b>OFT10-102 (W/D)</b></p> <p>Domestic/Light Commercial Servicing and Commissioning - Vaporising</p> <p><b>(See note 2)</b></p>	<ul style="list-style-type: none"> <li>• 1 x Sleeve burner rig and/or 1x Pot burner rig for cold works.</li> <li>• 1x live firing Sleeve burner appliance and/or 1x live firing Pot burner appliance for hot works</li> <li>• Voltage indicator with fused or resistance leads</li> <li>• Suitable electrical test facility to enable demonstration of competency for safe electrical isolation (<i>oil fired appliance may be used</i>)</li> <li>• Smoke Gun &amp; papers</li> <li>• Fully calibrated electronic combustion analyser</li> <li>• Equipment for measuring flue draught</li> <li>• Equipment for measuring oil flow rates</li> <li>• Equipment for measuring cold oil depth</li> <li>• Equipment for levelling a burner base</li> <li>• Three non-transparent containers, each containing varying quantities of kerosene and water</li> <li>• Water finding paste and spatula</li> <li>• Suitable hand tools</li> </ul>	<ul style="list-style-type: none"> <li>• OFTEC Technical Book 1</li> <li>• OFTEC Technical Book 3</li> <li>• OFTEC Technical Book 4</li> <li>• OFTEC Technical Book 5</li> <li>• OFTEC Domestic Commissioning &amp; Servicing Report Pad CD/11</li> <li>• Appliance installation and servicing instructions</li> </ul>
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<p><b>OFT10-105E</b></p> <p>Installation of Domestic Oil &amp; Bio-liquid fuelled Fixed Combustion Appliances and Systems</p> <p><b>(See note 2)</b></p>	<ul style="list-style-type: none"> <li>• Voltage indicator with fused or resistance leads</li> <li>• Suitable electrical test facility to enable demonstration of competency for safe electrical isolation (<i>oil fired appliance may be used</i>)</li> <li>• De-aerator</li> <li>• Sample flues</li> <li>• Pressure vessel (<i>may be within appliance</i>)</li> <li>• Suitable hand tools</li> </ul>	<ul style="list-style-type: none"> <li>• OFTEC Technical Book 1</li> <li>• OFTEC Technical Book 3</li> <li>• OFTEC Technical Book 4</li> <li>• CIBSE Domestic Heating Design Guide</li> <li>• Appliance installation and servicing instructions</li> </ul>
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<p><b>OFT10-600A</b></p> <p>Installation of Oil Fuel Storage and Supply Systems connected to Fixed Combustion Appliances</p> <p><b>(See note 2)</b></p>	<ul style="list-style-type: none"> <li>• Voltage indicator with fused or resistance leads</li> <li>• Suitable electrical test facility to enable demonstration of competency for safe electrical isolation (<i>oil fired appliance may be used</i>)</li> <li>• At least two remote acting fire valves, one of which having a temperature rating of 90°C, plus a selection of oil supply fittings that enables installation of the valves into a pneumatic pressure test rig capable of applying, monitoring and withstanding a pressure of 1.5 bar</li> <li>• De-aerator</li> <li>• Plastic and copper pipe &amp; fittings</li> <li>• Copper pipe flaring tool</li> <li>• Suitable hand tools</li> </ul>	<ul style="list-style-type: none"> <li>• OFTEC Technical Book 1</li> <li>• OFTEC Technical Book 3</li> <li>• Appliance installation and servicing instructions</li> </ul>
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<p><b>OFT10-201</b></p> <p>Commercial Servicing and Commissioning - Multi-Stage Pressure Jet</p> <p><b>(See notes 2 &amp; 3)</b></p>	<ul style="list-style-type: none"> <li>• 1 x oil fired pressure jet appliance with multi-stage burner and removable baffles</li> </ul> <p><i>And/or</i></p> <ul style="list-style-type: none"> <li>• 1 x oil fired pressure jet warm-air heater</li> <li>• Simulated Fusible Link Fire Valve rig, with 3 alternative positions for positioning of fusible link (1 correct, 2 incorrect) (<i>for demonstration of correct fire valve system layout - see diagram 62, Technical Book 3</i>)</li> <li>• Voltage indicator with fused or resistance leads</li> <li>• Suitable electrical test facility to enable demonstration of competency for safe electrical isolation of 3-phase system (<i>oil fired appliance may be used</i>)</li> <li>• Smoke Gun &amp; papers</li> <li>• Equipment for measuring flue draught</li> <li>• Fully calibrated electronic combustion analyser</li> <li>• Pressure &amp; Vacuum Gauges complete with manifolds</li> <li>• Three non-transparent containers, each containing varying quantities of kerosene or gas-oil and water</li> <li>• Water finding paste and spatula</li> <li>• Suitable hand tools</li> </ul>	<ul style="list-style-type: none"> <li>• OFTEC Technical Book 1</li> <li>• OFTEC Technical Book 3</li> <li>• OFTEC Technical Book 4</li> <li>• OFTEC Technical Book 7</li> <li>• OFTEC Commercial Commissioning &amp; Servicing Report Pad CD/51</li> <li>• Appliance installation and servicing instructions</li> </ul>
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**Note 1:** One of the appliances should be a condensing appliance. If a condensing appliance is not available at the time of assessment, either a display board with secondary heat exchanger and condensate pipework/trap, or a condensing gas-fired appliance may be used for practical paper 3 task 7.

**Note 2:** The number of appliances and equipment are a minimum requirement (but see note 3). The centre needs to have a suitable number of appliances and equipment to meet candidate numbers.

**Note 3:** Training and assessment may not be carried out on the same appliance. For the **OFT10-201 ONLY**, replacement of the multi-stage burner with a different type from that on which training took place will be acceptable for assessment purposes.

<p><b>OFT15-108D</b></p> <p>Installation, Commissioning and Servicing of Solid Fuel Burning Appliances (Domestic Space Heating)</p>	<ul style="list-style-type: none"> <li>• Working freestanding roomheater, suitably flued to enable smoke leakage test to take place</li> <li>• OR</li> <li>• Working inset roomheater and chimney/flue rig, suitably flued to enable smoke leakage test to take place</li> <li>• <i>NOTE – one of the above must be lit prior to the assessment to enable the candidate to carry out smoke tests and flue draught analysis.</i></li> <li>• Selection of hand tools</li> <li>• Smoke pellets, and a means of blocking terminal when undertaking smoke leakage test</li> <li>• Selection of flues / flue materials, must include flue-blocks, stainless steel liner, metal flue system</li> <li>• Selection of ventilation grilles including incorrect grilles (for example hit &amp; miss)</li> <li>• Coring ball and example flue/chimney set up to allow demonstration of coring ball use</li> <li>• Selection of flue pipes and jointing compounds</li> <li>• <i>NOTE: this selection should include a range of unsuitable flue pipes and jointing compounds, as well as the correct ones.</i></li> <li>• Data plate</li> <li>• Voltage indicator with fused leads conforming to HSE guidance note GS38</li> <li>• Suitable electrical test facility to enable demonstration of competency for safe electrical isolation</li> <li>• Draught gauge</li> <li>• Torch</li> <li>• Measuring tape</li> <li>• Calculators</li> <li>• Appliance and chimney rig with faults to be identified by the candidate</li> </ul>	<ul style="list-style-type: none"> <li>• OFTEC Guide to Solid Fuel Heating Installation, Commissioning and Servicing Work</li> <li>• Appliance installation and servicing instructions</li> </ul>
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<p><b>OFT15-108W</b></p> <p>Installation, Commissioning and Servicing of Solid Fuel Burning Appliances (Domestic Space and Water Heating)</p>	<ul style="list-style-type: none"> <li>• Working freestanding roomheater, suitably flued to enable smoke leakage test to take place</li> <li>• OR</li> <li>• Working inset roomheater and chimney/flue rig, suitably flued to enable smoke leakage test to take place</li> <li>• <i>NOTE – one of the above must be lit prior to the assessment to enable the candidate to carry out smoke tests and flue draught analysis.</i></li> <li>• Selection of hand tools</li> <li>• Smoke pellets, and a means of blocking terminal when undertaking smoke leakage test</li> <li>• Selection of flues / flue materials, must include flue-blocks, stainless steel liner, metal flue system</li> <li>• Selection of ventilation grilles including incorrect grilles (for example hit &amp; miss)</li> <li>• Coring ball and example flue/chimney set up to allow demonstration of coring ball use</li> <li>• Selection of flue pipes and jointing compounds</li> <li>• <i>NOTE: this selection should include a range of unsuitable flue pipes and jointing compounds, as well as the correct ones.</i></li> <li>• Data plate</li> <li>• Voltage indicator with fused leads conforming to HSE guidance note GS38</li> <li>• Suitable electrical test facility to enable demonstration of competency for safe electrical isolation</li> <li>• Draught gauge</li> <li>• Torch</li> <li>• Measuring tape</li> <li>• Calculators</li> <li>• Appliance and chimney rig with faults to be identified by the candidate</li> <li>• Wet system and controls – to be linked to either the freestanding roomheater or the inset roomheater</li> </ul>	<ul style="list-style-type: none"> <li>• OFTEC Guide to Solid Fuel Heating Installation, Commissioning and Servicing Work</li> <li>• CIBSE Domestic Heating Design Guide</li> <li>• Appliance installation and servicing instructions</li> </ul>
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<p><b>OFT18-108S</b></p> <p>Servicing and Commissioning of Solid Fuel Burning Appliances (Domestic Space Heating)</p>	<ul style="list-style-type: none"> <li>• Working freestanding roomheater, suitably flued to enable smoke leakage test to take place</li> <li>• OR</li> <li>• Working inset roomheater and chimney/flue rig, suitably flued to enable smoke leakage test to take place</li> <li>• <i>NOTE – one of the above must be lit prior to the assessment to enable the candidate to carry out smoke tests and flue draught analysis.</i></li> <li>• Selection of hand tools</li> <li>• Smoke pellets, and a means of blocking terminal when undertaking smoke leakage test</li> <li>• Selection of ventilation grilles including incorrect grilles (for example hit &amp; miss)</li> <li>• Coring ball and example flue/chimney set up to allow demonstration of coring ball use</li> <li>• Selection of flue pipes and jointing compounds</li> <li>• <i>NOTE: this selection should include a range of unsuitable flue pipes and jointing compounds, as well as the correct ones.</i></li> <li>• Data plate</li> <li>• Voltage indicator with fused leads conforming to HSE guidance note GS38</li> <li>• Suitable electrical test facility to enable demonstration of competency for safe electrical isolation</li> <li>• Draught gauge</li> <li>• Torch</li> <li>• Measuring tape</li> <li>• Calculators</li> <li>• Appliance and chimney rig with faults to be identified by the candidate</li> </ul>	<ul style="list-style-type: none"> <li>• OFTEC Guide to Solid Fuel Heating Installation, Commissioning and Servicing Work</li> <li>• Appliance installation and servicing instructions</li> </ul>
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