

# LESSON PLAN

**LESSON PLAN NUMBER: 9**

**Department: AMA Phase 2 Core Mechanical**

**Aim:** To gain knowledge and understanding of Machine Shop Appreciation CME29

**Topic:** Phase 2 ROA Core Mechanical – Machine Shop Appreciation CME29

**Previous Knowledge:** Phase 1

Target Time	Record of Achievement Reference	Objectives/Content	Tutor Activity	Learner Activity	Resources		Assessment
					Handouts	Equipment	
Session 1 1.40 hrs  (Subject to TTE Lunch & Break Rota)	<b>CME29</b> <b><u>Machinshop</u></b> <b><u>Appreciation</u></b> Machining a Pipe flange & fitting a Taper-Loc bush Turning, Surface Finish, Specific Tolerances	Practical Session Objective 1 - ( <b><i>Pipe-Flange</i></b> ) Introduction H&S, the various hand and machine tools used, measure, mark, prepare piece for manufacture	Set out the days objectives Re-cap planning Tool-Box Talk Explain the risks Explain the various tools used, measuring instruments Demonstration/ explanation Technical support	Check the machine Select recycled Flange Check allowances Re-cap plan safe operation of the lathe	<a href="#">Drawing</a> Taper-Lock Data Sheet	Workshop tools Precision measuring tools	Observation Product
Session 2 1.40 hrs  (Subject to TTE Lunch & Break Rota)	<b>CME29</b> <b><u>Machinshop</u></b> <b><u>Appreciation</u></b> Machining a Pipe flange & fitting a Taper-Loc bush Cont'd	Practical Session Objective 3 - ( <b><i>Pipe-Flange</i></b> ) Turning Facing Chamfers	Recap/ Bridge last session, intro this session Demonstration/ explanation Technical support	safe operation of the lathe turning operations Interim inspection	<a href="#">Drawing</a>	Workshop tools Precision measuring tools	Observation Product
Session 3 1.40 hrs  (Subject to TTE Lunch & Break Rota)	<b>CME29</b> <b><u>Machinshop</u></b> <b><u>Appreciation</u></b> Machining a Pipe flange & fitting a Taper-Loc bush Cont'd	Practical Session Objective 2 - ( <b><i>Pipe-Flange</i></b> ) Boring Turning Internal Tapered diameters finishing	Recap/ Bridge last session, intro this session Demonstration/ explanation Technical support	safe operation of the lathe turning operations Interim inspection	<a href="#">Drawing</a>	Workshop tools Precision measuring tools	Observation Product
Session 4 1.40 hrs  (Subject to TTE Lunch & Break Rota)	<b>CME29</b> <b><u>Machinshop</u></b> <b><u>Appreciation</u></b> Machining a Pipe flange & fitting a Taper-Loc bush Cont'd	Practical Session Objective 3 - ( <b><i>Pipe-Flange</i></b> ) Turning Facing Chamfers Surface Finish	Recap/ Bridge last session, intro this session Demonstration/ explanation Technical support Examination of product feedback	safe operation of the lathe turning operations Final inspection	<a href="#">Drawing</a>	Workshop tools Precision measuring tools	Observation Product

Equality & Diversity	Differentiated Learning Activities (Highlight or tick where applicable)
<p><b><u>Challenge stereotypes by:</u></b></p> <ul style="list-style-type: none"> <li>• Using non discriminatory language.</li> <li>• Using diverse images, names &amp; scenarios.</li> </ul> <p><b><u>Promote a positive learning environment by:</u></b></p> <ul style="list-style-type: none"> <li>• Being a positive role model.</li> <li>• Encouraging collaborative work.</li> <li>• Valuing individual characteristics and experiences.</li> <li>• Encouraging learners to participate.</li> <li>• Nurturing mutual respect.</li> <li>• Promoting positive behaviour.</li> </ul> <p><b><u>Promote inclusion by:</u></b></p> <ul style="list-style-type: none"> <li>• Anticipating and addressing potential barriers to learning.</li> <li>• Using accessible resources.</li> </ul>	<ul style="list-style-type: none"> <li>• Mix of individual, paired and group work. <input type="checkbox"/></li> <li>• Variety of activities for different learning styles. <input type="checkbox"/></li> <li>• Learner support. <input type="checkbox"/></li> <li>• Targeted differentiated questioning to check learning with prompts/leads to support less able learners. <input type="checkbox"/></li> </ul> <p><b><u>Specific Differentiation activities:</u></b></p> <ul style="list-style-type: none"> <li>• By Extension <input type="checkbox"/> (For example additional practical tasks after completion of ROA content for the most able)</li> <li>• By Group Work <input type="checkbox"/> (For example grouping learners of mixed ability to support each other within the peer group)</li> <li>• By Content. <input type="checkbox"/> (For example study different materials within the same topic area)</li> <li>• By Activities. <input type="checkbox"/> (For example study the same content but do different activities)</li> <li>• By Gradation <input type="checkbox"/> (for example the same information and activities are given as the activity becomes progressively more difficult only the more able complete the difficult tasks)</li> </ul>
<p align="center"><b>Individual Learner / Group Targeted Needs / Strategies</b> (List details where applicable)</p>	