

LESSON PLAN

LESSON PLAN NUMBER: 3

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)	CME29 <u>Machinshop</u> <u>Appreciation</u> Planning & Manufacture of a Hexagonal shear bolt Turning, Limits& Fits, Surface Finish, Specific Tolerances	Practical Session Objective 1 – (Hex Bolt) Prepare the work-piece (Stepped safety shoulder)	Set out the days objectives Re-cap planning Tool-Box Talk Explain the risks Explanation Demonstration	Prepare for machining operations Check the machine Re-cap plan safe operation of the lathe	Drawing	Workshop tools Precision measuring tools	Observation Product
Session 2 1.40 hrs (Subject to TTE Lunch & Break Rota)	CME29 <u>Machinshop</u> <u>Appreciation</u> Planning & Manufacture of a Hexagonal shear bolt Cont'd	Practical Session Objective 2 – (Hex Bolt) Centre drilling facing	Recap/ Bridge last session, intro this session Explanation Demonstration Technical Support *Break off- Short Input 1 On how to check for and eliminate tapers when using the tailstock to support the work-piece	safe operation of the lathe observation setting the tailstock true Interim inspection Eliminate Taper if necessary		Workshop tools Precision measuring tools	Observation Product
Session 3 1.40 hrs (Subject to TTE Lunch & Break Rota)	CME29 <u>Machinshop</u> <u>Appreciation</u> Planning & Manufacture of a Hexagonal shear bolt Cont'd	Practical Session Objective 3 – (Hex Bolt) Turning parallel diameters rough	Recap/ Bridge last session, intro this session Explanation Demonstration Technical Support	safe operation of the lathe turning operations Interim inspection		Workshop tools Precision measuring tools	Observation Product
Session 4 1.40 hrs (Subject to TTE Lunch & Break Rota)	CME29 <u>Machinshop</u> <u>Appreciation</u> Planning & Manufacture of a Hexagonal shear bolt Cont'd	Practical Session Objective 4 – (Hex Bolt) Turning stepped diameters rough	Recap/ Bridge last session, intro this session Explanation Demonstration Technical Support	safe operation of the lathe turning operations Interim inspection		Workshop tools Raw materials	Observation Product

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