LESSON PLAN

LESSON PLAN NUMBER: 11

Department: AMA Phase 2 Core Mechanical

Aim: To gain knowledge and understanding of **Machine** Tool Inspection and Maintenance
Topic: Phase 2 ROA Core Mechanical – **CME28-Machine Inspection and Maintenance**
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)*	**CME28-Machine Inspection And Maintenance** Visual Inspection Removal of waste materials & coolant	Practical Session Objective 1– *(Machine Maintenance)* Introduction H&S, the various known maintenance issues associated with the various types of machine tools used	Set out the days objectives Re-cap planning Tool-Box Talk Explain the risks Explanation Demonstration Technical support	Carry out specific task related Risk Assessments Conduct a visual inspection of a machine Removal of waste materials check coolant condition	Instructions Maintenance checklist	Workshop tools Machine tools	Observation
Session 2 1.40 hrs *(Subject to TTE Lunch & Break Rota)*	**CME28-Machine Inspection And Maintenance** Lubrication	Practical Session Objective 2– *(Machine Maintenance)* Lubrication Check all lubrications points Check condition of lubrication	Recap/ Bridge last session Explanation Demonstration Technical support	Conduct a inspection of all the lubrication points	Instructions Maintenance checklist	Workshop tools Machine tools	Observation
Session 3 1.40 hrs *(Subject to TTE Lunch & Break Rota)*	**CME28-Machine Inspection And Maintenance** Safety systems	Practical Session Objective 3 – *(Machine Maintenance)* Safety systems Lighting Guarding Interlocks	Recap/ Bridge last session Explanation Demonstration Technical support	Conduct a inspection of all the safety systems including Guarding, Interlocks, Emergency stop switches / Isolators, Local lighting, Complete a maintenance checklist	Instructions Maintenance checklist	Workshop tools Machine tools	Observation
Session 4 1.40 hrs *(Subject to TTE Lunch & Break Rota)*	**CME28-Machine Inspection And Maintenance** Carry out a Maintenance Task	Practical Session Objective 4 – *(Machine Maintenance)* Maintenance task	Recap/ Bridge last session, intro this session Technical support Examination of product feedback	Conduct a routine or non routine maintenance task Complete a PPM Worksheet Inspection	Instructions Maintenance checklist PPM Worksheet	Workshop tools Machine tools	Observation Product

Equality & Diversity	Differentiated Learning Activities *(Highlight or tick where applicable)*
Challenge stereotypes by: • Using non discriminatory language. • Using diverse images, names & scenarios. **Promote a positive learning environment by:** • Being a positive role model. • Encouraging collaborative work. • Valuing individual characteristics and experiences. • Encouraging learners to participate. • Nurturing mutual respect. • Promoting positive behaviour. **Promote inclusion by:** • Anticipating and addressing potential barriers to learning. • Using accessible resources.	• Mix of individual, paired and group work. ☐ • Variety of activities for different learning styles. ☐ • Learner support. ☐ • Targeted differentiated questioning to check learning with prompts/leads to support less able learners. ☐ **Specific Differentiation activities:** • By Extension ☐ *(For example additional practical tasks after completion of ROA content for the most able)* • By Group Work ☐ *(For example grouping learners of mixed ability y to support each other within the peer group)* • By Content. ☐ *(For example study different materials within the same topic area)* • By Activities. ☐ *(For example study the same content but do different activities)* • By Gradation ☐ *(for example the same information and activities are given as the activity becomes progressively more difficult only the more able complete the difficult tasks)*

Individual Learner / Group Targeted Needs / Strategies *(List details where applicable)*

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