IETAL

TRAINING CHECKLIST

I have received the above training and fully understand every point that was explained to me. I confirm that I will wear the required PPE equipment when using the above machinery and take all steps to ensure my own safety. I will ask for further training if I need to and will immediately inform the Supervisor or Manager if there are any issues with the machinery.

Name:	(Authorised Trainer)		
Signed:	Date:		

I confirm that I have trained the aforementioned person and that they fully understand how to use the above machinery, have received the required PPE equipment and know to inform me immediately of any issues with the machinery or if they require further training. I authorise this person to use the machinery detailed above.

Name:	 	 	(Authorised	Trainer)

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UNDERSTOOD? V OR X ETRIC SCREW TURELD ISB LEAD SERIES

THE CENTRE LATHE



THIS EQUIPMENT CAN BE USED BY PUPILS IF THEY HAVE RECEIVED PROPER INSTRUCTION AND ARE SUBJECT TO THE USUAL RULES OF SUPERVISION.

		CONTROL MEASURES
HOW MIGHT AN ACCIDENT OCCUR?	ENTANGLEMENT WITH MOVING PARTS	 The centre lathe has a number of moving parts – chuck, lead screw and feed shaft. The chuck must be adequately guarded to prevent
WHO MIGHT BE AFFECTED?	OPERATOR	contact whilst in motion. Ideally the chuck guard should be interlocked with a micro-switch to prevent operation when the chuck is exposed (fig.1).
WHAT INJURY MIGHT OCCUR?	LACERATION, ABRASION, BRUISING AND BREAKING OF BONES	 Operators must be made aware that the lead screw or feed shaft rotate in use and may be unguarded with a danger of clothing being drawn in when in use. The lead screw and feed shaft should ideally be fitted with telescopic guards and must be disengaged when not in use. Operators should
SEVERITY	HIGH	 and must be disengaged when not in use. Operators should also be aware that when using the lead screw and feed shafts the hand wheels will turn and can become entangle with clothing. The machine should stop within 10secs (PUWER) but because of the momentum and power of the lathe it is impossible to pull trapped clothing away. It is essential that no loose clothing, jewellery or long hair is worn. Materials should not project beyond the headstock gearing cover through the hollow spindle. In normal use the access hole in the cover should be closed off with a removable blanking plate (fig.2).





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		CONTROL MEASURES
		CONTROL MEASURES
HOW MIGHT AN ACCIDENT OCCUR?	EJECTION OF WORK PIECE, TOOLS, CHUCK KEY AND SWARF	 Owing to the speed at which the centre lathe operates, sudden violent ejection of the work-piece, chuck key, broken tools and swarf can occur. The work-piece should be firmly held by a substantial
WHO MIGHT BE AFFECTED?	OPERATOR AND OTHERS	amount of material in the chuck. Work mounted on a face plate should be securely bolted to it and counterbalanced to prevent excessive vibration.
WHAT INJURY MIGHT OCCUR?	LACERATION, ABRASION, BRUISING AND EYE INJURY	 Chuck keys should never be left in the chuck and should be spring-loaded where possible to prevent this. Cutting tools must be securely held in the tool post and excessive overhang of the tool should be avoided to
SEVERITY	HIGH	 reduce the possibility of breakage. Unless the lathe is placed parallel to a wall it should alwa be fitted with a back-plate. This is to prevent objects beir projected into the room or onto other machines if they are arranged in a chevron arrangement. Goggles rated for impact must be worn at all times.
HOW MIGHT AN ACCIDENT OCCUR?	SWARF AND OTHER WASTE MATERIALS	When turning on the lathe, swarf will be produced. Swarf is extremely sharp and should never be handled with bare hands, appropriate tools should be employed. Mild
WHO MIGHT BE AFFECTED?	OPERATOR AND OTHERS	steel and aluminium produce long spirals of swarf and no attempt should ever be made to remove it whilst the
WHAT INJURY MIGHT OCCUR?	LACERATION, BURNS AND EYE INJURY	 machine is in motion, as it can draw hands and clothing into the machine. Swarf should not be allowed to build up around the work-piece as it can be violently ejected. When turning brass the swarf takes the form of small
SEVERITY	HIGH	 sharp pieces which can enter clothing and be extremely uncomfortable. Swarf can also be extremely hot and burns can occur. Goggles rated for impact must be worn at all times.

UNDERSTOOD? V OR X WELLISH LEAD SCREW

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			CONTROL MEASURES
	HOW MIGHT AN ACCIDENT OCCUR?	SLIPPING ON SPILLAGES OF CUTTING FLUIDS/ SUDS	
	WHO MIGHT BE AFFECTED?	OPERATOR AND OTHERS	 See section on cutting oils and lubricants The coolant pipe must not be adjusted when machine is in motion.
A A	WHAT INJURY MIGHT OCCUR?	ALLERGIES AND SKIN INFECTIONS FROM CONTACT WITH OIL; BRUISING AND CUTS	Suds oils that have been sprayed from the work-piece onto the floor should be soaked up immediately with an absorbent material and cleared away.
1	SEVERITY	MEDIUM	
	HOW MIGHT AN ACCIDENT OCCUR?	MANUAL HANDLING OF CHUCKS AND FACE PLATES	Although chucks and face-plates usually found in
-	WHO MIGHT BE AFFECTED?	OPERATOR AND OTHERS	schools are not excessively heavy they might require the construction of a purpose-made cradle to facilitate two-
	WHAT INJURY MIGHT OCCUR?	BACK INJURY, TRAPPING OF HANDS, FINGERS AND FEET	person lifting. This cradle should also prevent the danger of chucks rolling off the bed onto the hands and feet of the operator.
-	SEVERITY	MEDIUM	

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		CONTROL MEASURES	
HOW MIGHT AN ACCIDENT OCCUR?	DISTRACTION	The machine should be sited in its own space	
WHO MIGHT BE AFFECTED?	OPERATOR	according to Building Bulletin 81. The machine should not be sited where the operator	
WHAT INJURY MIGHT OCCUR?	VARIOUS	is exposed to accidental collision with others.	
SEVERITY	MEDIUM		
HOW MIGHT AN ACCIDENT OCCUR?	FINISHING IN THE LATHE		
WHO MIGHT BE AFFECTED?	OPERATOR	The use of files and abrasives eg emery cloth, to finish	
WHAT INJURY MIGHT OCCUR?	LACERATION, ABRASION, BRUISING AND BREAKING OF BONES	work in the lathe is potentially hazardous and shoul not be encouraged.	
SEVERITY	HIGH		

UNDERSTOOD? V OR X

		CONTROL MEASURES
HOW MIGHT AN ACCIDENT OCCUR?	POOR LIGHTING AND VISIBILITY	 The lathe should be fitted with a filament or high intensity LED lamp to overcome the stroboscopic effect of the fluorescent strip lights fitted in the workshops. At certain speeds the work-piece can appear to be stationary or travelling in reverse due to flickering of the fluorescent lights. Chuck and tool-post guards (where fitted) should be clean and free from scratches to limit the need for the operator to look around them see their work (fig.1).
WHO MIGHT BE AFFECTED?	OPERATOR	
WHAT INJURY MIGHT OCCUR?	VARIOUS	
SEVERITY	MEDIUM	

