

3. Tools



What do you see or notice in terms of:	Note: For background information, see other side.	
•how suitable/appropriate are the tools for the work and workers?		
handle shape?		
• weight?		
• controls?		
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In conclusion, the current situation	is acceptable	needs improvement
What specific improvements can be made?		
Should we analyze the situation or the	no	yes - more detail
proposed solutions in more detail?		on other side









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We looked at	Why be concerned? (consequences)	Recommendations	
If tools are suitable or appropriate for the work & workers	If poorly chosen: • overwork, poor postures, shoulder problems • hand injuries, blisters, tendonitis, etc.	 Choose the tool that is best suited for the job so that the wrist remains straight and at a normal height Standardize nuts, bolts, etc. to reduce the number of tools required Tools that can be used by anyone - women, men, left-handed people Directly in front of the operator or slightly to the left or right 	
Handle shape	If poorly suited: • poor arm posture - raised, stretched, twisted; twisted wrist etc. • crushed hands /fingers if too small or sharp-edged • more strength required	 Shaped so the wrist remains straight and the handle fits well in the hand Handle not too smooth/rough/sharp wood or metal coated with rubber/plastic 10 cm to 12 cm (4" - 5") long diameter of handle about 60 mm (2.25") for tools requiring strength 12 mm (0.5") for precision tools May be used by both left-handed and right-handed people 	
Weight	If too heavy: • tired arms, cramps, tendonitis and other musculoskeletal problems	 For work requiring strength: between about 1.5 kg (3lb) & 2 kg (4.5lb) For precision work: between 400 g (0.5 lb) and 1.5 kg (3lb) For heavier tools/special systems: counterbalanced support devices, elbow rests, etc. 	
Controls	If poorly positioned:	 Controls that are easy to operate without stress for the fingers, hands, or wrists Controls that are not too stiff nor too sensitive May be used by left-handed people 	

Translated and adapted from SOBANE materials, available at www.sobane.be/fr/tms_obs.html



