







Criteria for assessment of Trainees

JOB ROLE	CNC OPERATOR / Machining Technician L3
Quali ca on Pack	ASC/Q 3501
No. Of NOS	3 Role speci c, 2 generic

NOS Title/ NOS	NOS & Performance Criterion Descrip on	Mar	ks allo	a on
Elements			1	
ASC/N3504	Assist in Carrying out pre-machining ac vi es	Theory	Viva	Prac cal
Understanding the	PC1. Understand the output product requirement			
component	by reading the engineering drawing			
requirements	speci ed in the work instruc ons/ work order			
	PC2. Clearly understanding the does and don'ts of			
	the manufacturing process as de ned in			
	SOPs/ Work Instruc ons or de ned by			
	supervisors			
	PC3. Reading the control panel instruc ons/ job		25	25
	orders to determine the correct output			
	product speci ca ons			
	PC4. Understanding the tooling instruc ons as			
	speci ed in the Opera ng Manual/ Work			
	Instruc ons or Standard Opera ng			
	Procedures			
	PC5. Selec on of proper coolant and lubricant			
	required for machining the required			
	component			
Checking the dimensions	PC6. Set the machine stops or guides as per the			
for the component	speci ed lengths indicated through scales or			
•	work instructions		10	10
	PC7. Measure and mark reference points/ cu ng			
	lines on the work pieces, using compasses,			
	calipers, rulers and other measuring tools			
	Sub total		35	35
ASC/N 3505	Support the operator in performing machining	Theory	Viva	Prac cal
	opera ons	,		
Se ng up machine as	PC1. Set-up, adjust machine tools in order to			
per work instruc ons	perform machining opera ons and keep			
	dimension within the speci ed tolerance			
	limit speci ed in the Standard Opera ng		10	25
	Procedures/ Opera ng manuals		10	23
	PC2. Support the operator in aligning and securely			
	hold xtures, cu ng tools etc. onto the			









	machine			
	PC3. Posi on/ secure/ align cu ng tools in tool			
	holders of the machine, using hand tools and			
	verify their posi ons with measuring			
	instruments			
Support the machinist/	PC4. Start lathe or turning/drilling/milling machine			
operator in performing	for opera ons			
machining on the	PC5. Support in select cu ng tools and tooling			
component	instruc ons as per the work instruc ons /			
	supervisor 's instructions			
	PC6. Operate hand wheels or valves in order to		10	40
	feed the component and allow cooling and			
	lubrica ng of the same as per the instruc ons			
	given by the machinist/supervisor			
	PC7. Turn on the coolant valves and start their ow			
	to maintain temperature in the lathe machine			
	chamber			
	PC8. Move tool holders manually or by turning the			
	hand wheels in order to feed tools along the			
01 / 10 111	machined component/ piece			
Observe/ Record the	PC9. Observe machine opera ons to detect defects			
machining opera ons	in the component manufactured			
	PC10. Observe the machine opera ons for any			
	malfunc ons and immediately inform the			
	supervisor of any malfunc on observed to		5	10
	prevent damage to the machining equipment/			
	output product			
	PC11. Support the operator in recording opera onal data such as pressure readings, length of			
	strokes, feed rates, speed etc in the formats			
	speci ed by the supervisors			
	subtotal		25	75
ASC/N 3506	Support the operator in conduc ng all post	Theory	viva	Prac cal
7.007.12.0000	machining opera ons	111001 y	viva	True cui
Perform minor machine	PC1. Maintain the machine as per proper			
maintenance ac vi es	opera onal condi on			
	PC2. Perform minor machine maintenance			
	ac vi es such as oiling or cleaning machine		10	20
	and its components			
	PC3. Oiling or cleaning machines as per the			
	schedules given in the maintenance plan			
	PC4. Adding coolant and lubricant in machine			
	reservoir			
Perform de- burring	PC5. With the help of the correct tool remove the			
ac vity on the machined	extra burrs, sharp edges, rust and chips from			
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components	the metal surface		10	30
Components	PC6. Use les, hand grinders, wire brushes, or		10	30
	power tools for performing de burring			
	opera ons. Ensure usage of Personal			
	Protec ve equipment like eye glasses and			
	hand gloves.			
	PC7. For automated processes perform shot			
	blas ng/ vibro processes for comple ng de-			
	burring opera ons			
Check quality of	PC8. Support the operator in measuring the			
machined component	speci ca ons of the nished component and			
(Gauging)	verify conformance as per CP/ WI			
3 3	PC9. Use devices like micrometers, vernier			
	calipers, gauges, rulers and any other			
	inspec on equipment for measuring			
	speci ca ons with valid calibra on status.		15	50
	PC10. Support the operator in no ng down the			
	observa ons of the basic inspec on process			
	and iden fy pieces which comply with the			
	speci ed standards			
	PC11. Separate the defec ve pieces into two			
	categories – pieces which can be repaired/			
	modi ed and pieces which are beyond repair			
	and maintain records of each category			
Assist the operator	PC12. Assist the operator in changing dierent			
in the tool change	worn machine accessories, such as cu ng			
process	tools(as per tool life listed, recommended)			
	and brushes, other hand tools		15	50
	PC13. Replace machine part as per work			
	instruc ons, using hand tools or no fy			
	supervisor/ engineering personnel for taking			
	correc ve ac ons			
	PC14. For automated process observe the tool			
	change cycle in order to ensure that the			
	selected tool is transferred to the spindle from			
	magazine a er the previous tool is transferred			
	to the magazine from the spindle Subtotal		F0	150
ASC/N 0006	3333 53 533	Theory	50	150
	Maintain a safe and healthy working environment	Theory	viva	Prac cal
Iden fy and report the risks iden ed	PC1. Iden fy ac vi es which can cause poten al injury through sharp objects, burns, fall,			
risks ideli ed	electricity, gas leakages, radia on, poisonous			
	fumes, chemicals ,loud noise			
	PC2. Inform the concerned authori es about the			
	poten al risks iden ed in the processes,			
	poten arrisks lucir eu in the processes,			









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	workplace area/ layout, materials used etc.			
	PC3. Inform the concerned authori es about			
	machine breakdowns, damages which can			
	poten ally harm man/ machine during			
	operations			
	PC4. Create awareness amongst other by sharing			
	informa on on the iden ed risks			
Create and sustain a	PC5. Follow the instruc ons given on the			
Safe, clean and	equipment manual			
environment friendly	describing the opera ng process of the			
work place	equipment			
	PC6. Follow the Safety, Health and Environment			
	related prac ces developed by the			
	organiza on			
	PC7. Operate the machine using the			
	recommended Personal		70	80
	Protec ve Equipment (PPE)			
	PC8. Maintain a clean and safe working			
	environment near the work place and ensure			
	there is no spillage of chemicals, produc on			
	waste, oil, solvents etc.			
	PC9. Maintain high standards of personal hygiene			
	at the work place			
	PC10. Ensure that the waste disposal is done in the			
	designated area and manner as per			
	organiza on SOP.			
	PC11. Inform appropriately the medical o cer/ HR			
	in case of self or an employee's illness of			
	contagious nature so that preven ve ac ons			
	can be planned for others		70	80
	subtotal			20
8 CO /81 0004		(TD)		
ASC/N 0021	Maintain 5S at the work premises	Theory	Viva	practical
ASC/N 0021 Ensure sor ng	Maintain 5S at the work premises PC1. Follow the sor ng process and check that	Theory		
	Maintain 5S at the work premises PC1. Follow the sor ng process and check that the tools, xtures & jigs that are lying on	Theory		
	Maintain 5S at the work premises PC1. Follow the sor ng process and check that the tools, xtures & jigs that are lying on worksta ons are the ones in use and un-	Theory		
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	them in the correct places		
	PC5. Sort the tools/ equipment/ fasteners/ spare		
	parts as per speci ca ons/ u lity into proper		
	trays, cabinets, lockers as men oned in the 5S	10	20
	guidelines/ work instruc ons		
	PC6. Ensure that areas of material storage areas		
	are not over owing		
	PC7. Properly stack the various types of boxes		
	and containers as per the size/ u lity to avoid		
	any fall of items/ breakage and also enable		
	easy sor ng when required		
	PC8. Return the extra material and tools to the		
	designated sec ons and make sure that no		
	addi onal material/ tool is lying near the work		
	area		
	PC9. Follow the floor markings/ area markings		
	used for demarca ng the various sec ons in		
	the plant as per the prescribed instruc ons		
	and standards		
Ensure proper	PC10. Follow the proper labeling mechanism of		
documenta on and	instruments/ boxes/ containers and		
storage (organizing ,	maintaining reference les/ documents with		
streamlining)	the codes and the lists		
	PC11. Check that the items in the respec ve areas	10	20
	have been iden ed as broken or damaged		
	PC12. Follow the given instruc ons and check for		
	labelling of uids, oils. lubricants, solvents,		
	chemicals etc. and proper storage of the		
	same to avoid spillage, leakage, re etc.		
	PC13. Make sure that all material and tools are		
	stored in the designated places and in the		
	manner indicated in the 5S instruc ons		
Ensure cleaning of self	PC14. Check whether safety glasses are clean and		
and the work place	in good condi on		
	PC15. Keep all outside surfaces of recycling		
	containers are clean		
	PC16. Ensure that the area has oors swept,		
	machinery clean and generally clean. In case		
	of cleaning, ensure that proper displays are		
	maintained on the oor which indicate	10	40
	poten al safety hazards	10	+∪
	PC17. Check whether all hoses, cabling & wires		
	are clean, in good condi on and clamped to		
	avoid any mishap or mix up		
	PC18. Ensure workbenches and work surfaces are		









	Total	30	230	460
	Sub total		50	120
	instruc ons		F0	100
	men oned in the 5S check lists/ work			
	What not to do to build sustainability in 5S as			
	PC26. Follow the guidelines for What to do and			
	for ac ve par cipa on			
	PC25. Par cipate ac vely in employee work groups on 5S and encourage team members			
	PC24. Support the team during the audit of 5 S			
	on 5 S			
	PC23. A end all training programs for employees		10	20
	environment		1.0	20
LIISUIG SUSTGIIGIIGG	schedules to create a clean working			
Ensure sustenance	personal hygiene PC22. Follow the daily cleaning standards and			
	clean shoes, clean gloves, clean helmets,			
	PC21. Ensure self-cleanliness - clean uniform,			
	in the correct loca on and in good condion			
	PC20. Store the cleaning material and equipment			
	ligh ng system to ensure proper illumina on			
	clean and in good condi on PC19. Follow the cleaning schedule for the			