

ProjectX - INTERNAL ASSESSMENT

Title of the ProjectX: CNC ASSISTED PRODUCT MANUFACTURING

School writing: SAVO

School testing: SAVO

A. PRESENTATION

	Opinion (thick)		Proposal / Comment
Student		X	Easy to understand, no problems
			
Teacher		X	Clear
			

B. THEORETICAL KNOWLEDGE

	OBJECTIVE			REFERENCE		
Student		X	Ok, clear enough		X	Occupational safety card for the student
						
Teacher		X	Ok			Maybe too many manuals to explore
					X	

ACTIVITIES

	ACTIVITY			REFERENCE		
Student		X	Ok		X	Welding test was easy. Assistance with cnc-machines is important.
						
Teacher		X	Ok		X	Assistance is needed to get start.
						

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C. PRACTICE – PRATICAL DETAILS

Brief description of the practice

	Opinion (thick)		Proposal / Comment
Student		X	Ok
			
Teacher		X	Ok
			

Practical activities

STEP 1	Opinion (thick)		Proposal / Comment
Student		X	No drawings - finished product gave sufficient overview....I think.
			
Teacher		X	Decided to test with a finished sample. Teacher had geometrical files (for plasma cutting) and gave them to student. No drawings, just a complete final product. Should do also better drawings.
			

STEP 2	Opinion (thick)		Proposal / Comment
Student		X	Good storage and the materials were easy to find.
			
Teacher		X	Ok
			



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STEP 3	Opinion (thick)		Proposal / Comment
Student		X	I'm happy there's a teacher to ask. Also had some problems with control system in cnc-bending machine (did not work properly).
			
Teacher		X	A lot of guiding with the cnc-machines.
			

STEP 4	Opinion (thick)		Proposal / Comment
Student		X	Welding-machines are familiar.
			
Teacher		X	Easy part for this student.
			

STEP 5	Opinion (thick)		Proposal / Comment
Student		X	Tried both mig/mag and tig-weiding. Had to remove oxidation from the surface before tig-welding.
			
Teacher		X	Easy part for this student. He is studying welding and metalsheet -field.
			



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STEP 6	Opinion (thick)		Proposal / Comment
Student		X	Ok
			
Teacher		X	Ok
			

STEP 7	Opinion (thick)		Proposal / Comment
Student		X	Satisfied with the result. Not so easy to calculate all the costs just on the blank paper – template is missing. And not so good in math.
			
Teacher			Just some welding spatters. Template for cost account is missing.
		X	

General commentary

Student

English language caused challenges for me and I needed help with translation. I would rather be a worker than a theorist, therefore I did not like those theoretical parts.

The project was versatile and clear and I liked the idea of the final product. Without help of my teacher I couldn't manage with the cnc-machines. Now I am a little bit better with them now.