

SATEC @ W.A. Porter C.I.

Technological Design: Reflection on Shop Work --Term 1

1 Evaluation of Your Reflection: Critical Thinking and Communication __/100

This 300 to 500 word doc is due two school days after the date at the bottom of this page. Your shop work reflection will be evaluated as both Thinking and Communication – refer to the following rubrics in the Pickup folder to see how your reflection will be marked. The criteria are clearly stated below.

Filename	Document Topic
Written_Report_Rubric.doc	-Rubric for personal portfolio template (see Sample_Portfolio_Template.doc) -Rubrics for design documents and written reports in your design portfolio -Rubric for quality of communication
Rubric_Information_Processing.doc	-Rubric for effectiveness of information processing, quality of thinking and depth of understanding
Fabrication_Rubrics.doc	-Rubrics for Fabrication / Build Skills – product construction & performance -Evaluate your product against this set of rubrics -Did you actually accurately make what you had intended to make ?
MarkingScheme Probl Solving 3DCAD.doc	-Problem Solving – did you actually solve the problem in your design phase using CAD

2 Criteria – Reflection on Shop Work

#	Criteria for the Reflection Document (Refer to the Supporting Documents From the Teacher During This Course)	Self-Eval Mark / 10
1	Write your Reflection as you would any serious design document for an employer -- well-formatted, well-structured with useful headings, name, date, creative title etc. Use your Portfolio Template – a good framework for all of your design documents. Be so proud of this reflection that you would show it to the human resources manager at a job interview.	
2	Briefly describe the project(s) that you worked on in the shop, including your role and major tasks. Justify the changes that you made along the way – justify the differences between your design drawings and your finished product. Be sure to submit your “as-built” drawing along with this reflection.	
3	Select something that went particularly well in the shop. Explain what was so good about it and how your skills (hand skills, thinking skills etc) or knowledge improved.	
4	Select something that went particularly poorly for you. Explain what you believe “went wrong” – why it did not “work out” – be accountable for the underlying problem. How can you do better next time?	
5	Planning Skills: In detail, discuss the effectiveness of your planning of your project. (eg. brainstorming, sketches, requirements, design for strength/durability etc., CAD model, 3-view drawings, parts list or cut list, task list etc.). Discuss an example such as the importance of materials availability.	
6	Measurement Skills: In detail, discuss the effectiveness of your measurement skills (eg laying out the cuts to make on a piece of wood). Discuss measuring instruments that would have been helpful in what you were doing, had they actually been available in the shop.	
7	Hand Skills: In detail, discuss the improvement of your hand skills (eg using a cross-cut saw). Discuss at least one example. Discuss hand tools that would have been helpful in what you were doing, had they actually been available in the shop.	
8	Following a Procedure: With respect to one portion of your work in the shop, discuss how a well-planned procedure could have given better and / or more efficient results. Discuss a tool that would be important to add to the shop to make this procedure “more do-able”. Discuss the importance of correctly and effectively using the right tool once as opposed to using several tools in a poorly planned way.	
9	Safety: Discuss your adherence to safety principles in the shop (eg in using power tools or hand tools)	
10	The Teacher -- Either in the shop or in preparation to go into the shop... What can the teacher do better next time? Explain. What should the teacher do more of? Explain. What should the teacher do less of? Explain. Note: The teacher “ <i>did not do</i> ” some things deliberately, with purpose – to encourage critical thinking! The teacher wants to see your critical thinking now – in this reflection -- even if you already discussed it with him earlier!	