

	1-Needs More	2	3 - Good	4	5 - Excellent
Task organization and completion. (Does task organization reflect the deliverables described in the handout? Where are the cadets with respect to their Gantt Chart? Has any step required multiple iterations? What work remains to be done? Do cadets have a realistic plan to complete the project?)					
Reactor design. (Do the cadets recognize the primary design problems in this project? Have they completed them? Have they accomplished more than one iteration of the design? Do they understand the associated physical affects in the reactor such as temperature gradient and pressure drop?)					
Separator design. (Do the cadets know what the product distribution coming out of the reactor is? Do they have a realistic plan for separating the product fractions? Have they performed the calculation for at least one split yet? Have they considered multiple component splits yet?)					
Literature survey. (Have the cadets incorporated ideas from the big 3 chemical engineering references? Have they explained how others have solved this problem? Appropriate point-of-use references? Composition and physical attributes of the catalyst? Have they constructed an appropriate arrow-pushing mechanism?)					
Preliminary economic analysis. Have cadets found references to cost and capacity for similar types of units? Have cadets used the scaling equations to estimate total process capital investment? Have cadets completed the colorful worksheet? How many layers have they gone down?)					
Quality of PowerPoint briefing. (Are slides organized and clear? Have cadets spoken with clear and correct English grammar? How do the cadets respond to questions? Were there answers to questions thorough? Could they brief each other's sections?)					
Preliminary safety, environmental, and control. Have cadets identified the safety and environmental hazards associated with this process? If so, how to they plan to mitigate them? Have cadets identified a control strategy for this process? Is the control inherently safe?					
Notes:					

Total Score: