

	1-Needs More	2	3 - Good	4	5 - Excellent
Task organization and completion. <ul style="list-style-type: none"> <input type="checkbox"/> Have the cadets properly refined the problem statement? <input type="checkbox"/> Have the cadets properly organized subtasks and are all cadets contributing? <input type="checkbox"/> Is there a statement of realistic deliverables? <input type="checkbox"/> Did cadets meet once per week with instructor? Indicate date. <input type="checkbox"/> Is the project report complete? 					
Literature review. <ul style="list-style-type: none"> <input type="checkbox"/> Have cadets explained industrial production of nylon? <input type="checkbox"/> Have they used the chemical engineering encyclopedias? How many? <input type="checkbox"/> Have the cadets diagrammed the chemical reactions involved? <input type="checkbox"/> Have cadets found the capacity and cost for similar types of units? Have they used price scaling equations to estimate total process capital investment? 					
Reactor design. <ul style="list-style-type: none"> <input type="checkbox"/> Have they identified the feed and product compositions? <input type="checkbox"/> Have the cadets produced a reactor design concept? <input type="checkbox"/> Do the cadets understand the major reactor design issues? <input type="checkbox"/> Have the cadets addressed the issues? <input type="checkbox"/> Have they determined the cost of the reactor(s)? 					
Separator design and unit operations. <ul style="list-style-type: none"> <input type="checkbox"/> Do they understand how many and what type of separators they will need? <input type="checkbox"/> Have they identified the separator feed and product compositions? <input type="checkbox"/> Have they determined the size of the separators? <input type="checkbox"/> Have they calculated the cost of pumps, heat exchangers, and columns? <input type="checkbox"/> Are equipment spec sheets completed? 					
Process Economics. <ul style="list-style-type: none"> <input type="checkbox"/> Have the cadets calculated the cost of all pumps, heat exchangers, reactors, separators? Is there a table of equipment costs? <input type="checkbox"/> Have the cadets calculated capital investments (TCI, WC, and FCI)? <input type="checkbox"/> Have the cadets calculated profitability (ROI, PBP, NPW, DCFR)? <input type="checkbox"/> Have the cadets accounted for inflation and depreciation? 					
Quality of Report. <ul style="list-style-type: none"> <input type="checkbox"/> Are PowerPoint slides organized and clear? <input type="checkbox"/> Did the cadets each speak clearly with correct grammar? <input type="checkbox"/> Did the cadets respond clearly to questions? <input type="checkbox"/> Are flow sheets properly presented (I/O, functions, process, and P&ID)? <input type="checkbox"/> Are chemical drawings properly presented? 					
Notes: Total Score: _____					