Professional Engineers Ontario			
Engineering Intern Experience Checklist			
This checklist is for the Intern's personal use. No need to subr	nit to PEO.		
Is the position being considered exclusively for a graduate from an engineering degree program?	☐ Yes	🗌 No	
If the answer to the question above is ' No ', what other academic qualifications would be suitable?			
SUPERVISION - A professional intern needs to learn from a licensed practitioner within the same profession			
Will the supervisor be a licensed professional engineer?	🗌 Yes	🗌 No	
If 'No' to the above, would someone take professional responsibility for the work being performed by the intern?	🗌 Yes	🗌 No	
Would the intern have access to a 'mentor' who is a licensed professional engineer who could monitor the work being assigned and performed?	🗌 Yes	🗌 No	
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QUALITY OF EXPERIENCE - Licensing of an engineering intern is structured along the lines of five criteria which must be met over the course of the 48- month internship. Engineering work experience is reviewed for indication that the applicant has had exposure and understanding of each of the criteria.			
Please circle or highlight the relevant items from the listings below and indicate proportion of time that the intern will be spending on each of them.			
APPLICATION OF THEORY - To qualify as engineering work, at least one component of the following must be present in the position as a significant percentage of the job function. The work should involve the use of engineering principles taught during an engineering degree program.			
Analysis : scope & operating conditions, performance assessment, safety & environmental issues, technology assessment, economic assessment, reliability analysis	Present in the position?		
Design & Synthesis : functionality or product specification, component selection, integration of components & sub-systems into larger systems, reliability & maintenance factors, environmental & societal implications of the product or process, quality improvements	Present in the position?		
Testing Methods : devising testing methodology & techniques, verifying functional specifications, new product or technology commissioning & assessment	Present in the position? ☐ Yes % ☐ No		
Implementation Methods : applying technology, engineering cost studies, optimization techniques, process flow & time studies, implementing quality control & assurance, cost/benefit analysis, safety & environmental issues & recommendations, maintenance & replacement evaluation	Present in the position?		

PRACTICAL EXPERIENCE - Provides interns with an appreciation of the fundamental roles of function, time, cost, reliability, reparability, safety & environmental impact in their work, through the opportunity to experience/understand/acquire knowledge about the following:			
Function of Components within a System: merits of reliability, role of computer software, relationship of the end product to the equipment & control systems	Present in the position?		
Limitations of Practical Engineering & Related Human Systems: production methods, manufacturing tolerances, operating & maintenance philosophies, ergonomics	Present in the position? ☐ Yes % ☐ No		
Significance of Time in the Engineering Process: work flow, scheduling, equipment wear out, corrosion rates and replacement scheduling	Present in the position?		
Codes, Standards, regulations & Laws that govern Applicable Engineering Activities	Present in the position?		
MANAGEMENT OF ENGINEERING – Planning including development of a concept & evaluation of alternatives, Scheduling including allocation of resources & assessing impact of delays, Budgeting including identification of resources to assessment of cost escalation, Supervision including leadership, organization & motivational skills, Project Control including coordination, monitoring & taking corrective action, Risk Assessment including performance & social & environmental impacts	Present in the position?		
COMMUNICATION SKILLS - Written Work including briefs or formal reports, Oral Reports or Presentations to peers, management, scientific community and/or the general public.	Present in the position?		
SOCIAL IMPLICATIONS OF ENGINEERING – Awareness of Potential Consequences both Positive and Negative of a Project, Recognition of Value to the Public, Safeguards to Mitigate Adverse Impacts, Role of Regulatory Agencies , and Responsibility to Guard Against Conditions Dangerous or Threatening to Life, Limb, Property or the Environment.	Present in the position? ☐ Yes % ☐ No		
NOTE: These guidelines can help applicants, supervisors, referees and employers assess whether a job position offers sufficient engineering to help meet the five quality-based criteria of :			
 Application of Theory Practical Experience Management of Engineering Communication Skills Social Implications of Engineering 			