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Form No.: APP-SC1.1		
Effective Date: 12 February 2018		
Rev no: 0		

**Engineering Report**

Specific equipment type(s) applicable to your registration:

(Conventional fire detection systems, addressable fire detection systems, aspiration fire detection systems, fire detection for electronic environments)

Use this form to report in about 100 words per competency indicator (criterion) under Outcomes 1 to 11 below on a recent engineering task, part of a project or complete project to which the applicant have made a significant contribution. The report may cover conceptualization, design and analysis, specification, tendering and adjudication, manufacturing, project and construction management, commissioning, maintenance, measurement and testing or planning at a specifically-defined level. Please also provide a sample relevant calculations, drawings, etc. as an addendum which is limited to two A4 pages.

Use Appendix B of the Discipline Specific Training Guide R-05-FPSP-SC to assist in the interpretation of the criteria

Name of Applicant:

<b><u>Brief Description of Work Done:</u></b> (<30 words)	
<b><u>Date of Work Done:</u></b>	
<p><b><u>Specifically-defined engineering problems</u></b> have the following characteristics:</p> <p>a) can be solved mainly by specific practical engineering knowledge, underpinned by related theory</p> <p><i>and one or more of:</i></p> <p>b) are largely defined but may require feedback</p> <p>c) are discrete, specifically focused tasks within engineering systems</p> <p>d) are routine, frequently encountered and in familiar specified and sustainable context</p> <p><i>and one or more of:</i></p> <p>e) can be solved by standardised or prescribed ways</p> <p>f) are encompassed by specific standards, codes, legislation and documented procedures; requires authorisation to work outside limits</p> <p>g) information is concrete specific and largely complete, but requires checking and possible supplementation</p> <p>h) involve specific issues but few of these imposing conflicting constraints and a specific range of interested and affected parties</p> <p><i>and one or both of:</i></p> <p>i) requires practical judgement in specific practice area in evaluating solutions, considering interfaces to other role-players</p> <p>j) have consequences which are locally important but within a specified category (wider impact are dealt with by others).</p> <p><b><u>Specifically-defined engineering activities</u></b> have several of the following characteristics:</p> <p>a) <i>Scope</i> of specific practice area is defined by specific techniques applied; change by adopting new specific techniques into current practice</p> <p>b) Practice area is located within a wider, complex <i>context</i>, with specifically-defined working relationships with other parties and disciplines</p> <p>c) Work involves specific familiar <i>resources</i>, including people, money, equipment, materials, technologies</p> <p>d) Require resolution of <i>interactions</i> manifested between specific technical factors with limited impact on wider issues</p>	


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- e) Are *constrained* by operational context, defined work package, time, finance, infrastructure, resources, facilities, standards and codes, applicable laws
- f) Have *risks* and *consequences* that are locally important but are generally not far reaching.

<b>Outcomes and (Competency Indicators (Criteria))</b>	
<b>Outcome 1: Define, investigate and analyse specifically-defined engineering problems encountered in the applicant's work:</b>	
1.1 State how <u>the applicant</u> understood the activity as agreed to with the client (or your supervisor).	
1.2 Describe how <u>the applicant</u> analysed and clarified information, drawings, codes, procedures, etc.	
<b>Outcome 2: Design, develop, plan or practise solutions to specifically-defined engineering problems (tasks) encountered in the applicant's work:</b>	
2.1 Describe how <u>the applicant</u> developed and analysed alternative approaches to do the work. Impacts and sustainability checked. (Calculations attached)	
2.2 State what the final solution to perform the work was, client or the applicant's supervisor in agreement.	
<b>Outcome 3: Comprehend and apply knowledge embodied in established specific engineering practices and knowledge specific to the field in which the applicant practice:</b>	
3.1 State what Higher Certificate level <u>engineering standard procedures and systems the applicant</u> used to execute the work, and how Higher Certificate level theory was applied to understand and/or verify these procedures.	
3.2 Give <u>the applicant's</u> own Higher Certificate level theoretical calculations and/or reasoning on why the application of this theory is considered to be correct (Actual examples attached).	
<b>Outcome 4: Manage part or all of one or more specifically-defined engineering activities embodied in the applicant's work:</b>	
4.1 State how <u>the applicant</u> managed him or herself, priorities, processes and resources in doing the work (e.g. bar chart).	
4.2 Describe <u>the applicant's</u> role and contribution in the work team.	
<b>Outcome 5: Communicate clearly with others in the course of the applicant's engineering activities (specifically-defined engineering work):</b>	
5.1 State how <u>the applicant</u> presented his or her point of view and compiled reports after completion of the work.	
5.2 State how <u>the applicant</u> compiled and issued instructions to subordinates working on the same task.	

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<b>Outcome 6: Recognise the reasonably foreseeable social, cultural, environmental and sustainability effects of the applicant's specifically-defined engineering activities generally:</b>		
6.1 Describe the social, cultural, long term sustainability and environmental impact of this engineering activity.		
6.2 State how <u>the applicant</u> communicated mitigating measures to affected parties and acquired stakeholder engagement.		
<b>Outcome 7: Meet all legal and regulatory requirements, protect the health and safety of persons and adhere to sustainable practices in the course of the applicant's specifically-defined engineering activities:</b>		
7.1 List the major laws and regulations, safety requirements, standards and sustainability practices applicable to this particular activity.		
7.2 State how <u>the applicant</u> did risk management and used safe and sustainable materials, components and systems, obtaining advice if necessary.		
<b>Outcome 8: Conduct engineering activities ethically in executing the applicant's work:</b>		
8.1 State how <u>the applicant</u> identified ethical issues and affected parties and their interest and what you did about it when a problem arose.		
8.2 Confirm that <u>the applicant</u> is conversant and in compliance with ECSA's Code of Conduct and why this is important in his or her work.		
<b>Outcome 9: Exercise sound judgement in the course of specifically-defined engineering activities encountered in the applicant's work:</b>		
9.1 State the factors applicable to the work, their interrelationship and how <u>the applicant</u> applied the most important factors.		
9.2 Describe how <u>the applicant</u> foresaw work consequences and evaluated situations in the absence of full evidence.		
<b>Outcome 10: Be responsible for making decisions on part or all of one or more specifically-defined engineering activities included in the applicant's work:</b>		
10.1 Show how <u>the applicant</u> used Higher Certificate level theoretical calculations to justify decisions taken in doing engineering work. (Attach actual calculations).		
10.2 State how <u>the applicant</u> took responsible advice on any matter falling outside your own education and experience.		
10.3 Describe how <u>the applicant</u> took responsibility for your own work and evaluated any shortcoming in his or her output.		

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<b>Outcome 11: Undertake independent learning activities sufficient to maintain and extend the applicant's competence.</b>		
11.1 State what strategy <u>the applicant</u> have independently adopted to enhance his or her own development.		
11.2 State the philosophy of <u>the applicant's</u> employer in regard to your development.		
Evidence of the applicant's competency development plan and independent learning ability must be given in the Initial Professional Development Report, Form IPD-SC.		

Signature of Applicant: \_\_\_\_\_

Date:

Signature of Mentor / Supervisor: \_\_\_\_\_

Name of Mentor/Supervisor printed:

Tel. No.: