

Page 2 of 9	REGISTRATION AS A SPECIFIED CATEGORY PRACTITIONER: Fire Protection Systems Certified Code: Fire Detection	
Form No.: APP-SC1.1		
Effective Date: 12 February 2018		
Rev no: 0		

Sub Discipline-Specific Requirements Report
Form SDSRR-FPSP-FD Certified Code: Fire Detection (2018-02-12)


Surname and Initials:

Tick off (✓) the specific equipment type(s) applicable to your registration application:	
1. Conventional fire detection	<input type="checkbox"/>
2. Addressable fire detection	<input type="checkbox"/>
3. Aspiration detection	<input type="checkbox"/>
4. Detection in electronic areas	<input type="checkbox"/>
	<input type="checkbox"/>


Use this form to report in about 100 words per Requirement applicable, on the applicant's personal knowledge as a Fire Protection Systems Certified Code: Fire Detection. Attach to this report the actual applicable installation schedules, maintenance schedules, commissioning results, inspection results, etcetera for each section, done by the applicant under the supervision of an ECSA registered person.

REPORT DESIGNER:		
1.	Describe how the system is designed	
<u>Item</u>	<u>Requirements</u>	<u>Report</u>
1.1	The relationship between known and proven standards for fire detection systems is used in order to comply with legislative requirements.	
1.2	Manufacturer's literature is used for guidance and is followed within the design parameters.	
1.3	Assessment of the risk under design is to be reviewed in accordance with relevant documentation.	
1.4	Design is to encompass the very latest information available in order for the system to be relied upon. Which national standards are used in the design process?	
1.5	Design is a product of given calculation parameters for the various environments.	
2.	Demonstrate knowledge of designing the systems	
2.1	The purpose of fire detection systems are explained in terms of minimisation of damage.	
2.2	Different materials are described in terms of their fire risk.	

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Page 3 of 9	REGISTRATION AS A SPECIFIED CATEGORY PRACTITIONER: Fire Protection Systems Certified Code: Fire Detection	
Form No.: APP-SC1.1		
Effective Date: 12 February 2018		
Rev no: 0		
2.3	Environmental conditions are described in terms of their fire risk.	
2.4	Detection system components are categorised in terms of their functionality for specific risk categories.	
2.5	Available systems are described in terms of their detection abilities and suitability to a given situation	
3.	Describe the research into design requirements	
3.1	Specific categories of risk are identified in accordance with physical conditions.	
3.2	Availability of equipment is determined in accordance with fire detection requirements.	
3.3	Fire detection system design criteria are obtained in accordance with accepted research practices.	
4.	Describe how design requirements are stipulated	
4.1	Fire detection design criteria are specified in accordance with legislative requirements.	
4.2	Components selected for the system are appropriate for the protection required.	
4.3	The power source specified is appropriate to the requirements of the system.	
4.4	The loop length specified is appropriate to the manufacturer specifications of the power source.	
4.5	The number of components on each loop or spur are within manufacturer specification.	
5.	Demonstrate how design criteria are communicated	
5.1	Schematic diagrams are developed that communicate relevant design criteria.	
5.2	Configuration sheets are compiled to comply with design criteria.	
5.3	Relevant documentation is completed in accordance with legislative requirements.	
5.4	Documentation is distributed in accordance with legislative requirements.	

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Page 4 of 9	REGISTRATION AS A SPECIFIED CATEGORY PRACTITIONER: Fire Protection Systems Certified Code: Fire Detection	
Form No.: APP-SC1.1		
Effective Date: 12 February 2018		
Rev no: 0		
5.5	The end user is briefed on the operation of the system in accordance with system requirements and user responsibilities.	

REPORT INSTALLER:		
6.	Demonstrate knowledge of the components of the equipment to be installed.	
<u>Item</u>	<u>Requirements</u>	<u>Report</u>
6.1	The basic chemistry of combustion is described in accordance with accepted fire industry standards.	
6.2	Components are identified and the purpose of each component is described in terms of its main uses and limitations in the system.	
6.3	Consequences of incorrect installation are explained in terms of the effect on the system.	
6.4	Different fire risk zones or occupancy classifications are described in accordance with the relevant standards and their relationship with fire detection system categories.	
6.5	Static electricity's effect on fire detection systems is described in terms of the risks involved and precautionary measures that may be taken.	
7.	State how you prepare to install components making up the installation	
7.1	Building plans and schematic diagrams are interpreted to identify location of components.	
7.2	Tools, equipment and components required for the installation are identified and prepared for use in accordance with the given design.	
7.3	The installation task is confirmed with relevant authorities in accordance with workplace procedures.	
7.4	Permission to install the system is confirmed with relevant personnel in accordance with relevant safety legislation.	
8.	Describe how to install the components making up the system	
8.1	Components are installed in accordance with manufacturer specifications.	
8.2	Components are positioned in accordance with contract documentation.	
8.3	Fire detection systems are used in accordance with the relevant legislation.	


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Page 5 of 9	REGISTRATION AS A SPECIFIED CATEGORY PRACTITIONER: Fire Protection Systems Certified Code: Fire Detection	
Form No.: APP-SC1.1		
Effective Date: 12 February 2018		
Rev no: 0		


8.4	Work is conducted in accordance with relevant health and safety legislation.	
8.5	Work is conducted in accordance with agreed time schedules.	
8.6	Tools and equipment are used in accordance with their design.	
8.7	Power supply circuit breakers are labelled in accordance with health and safety legislation and fire detection standards.	
9.	Describe how the system is tested	
9.1	Support and cable fixing is checked in accordance with manufacturer specifications and national standards.	
9.2	Test equipment is used in accordance with its design and manufacturer's specifications.	
9.3	System components are tested in accordance with manufacturer's requirements and national standards.	
9.4	Work is conducted in accordance with relevant health and safety legislation.	
9.5	Relevant documentation is completed in accordance with legislative and fire standard requirements.	

REPORT COMMISSIONER:		
10.	Demonstrate knowledge of commissioning systems	
<u>Item</u>	<u>Requirements</u>	<u>Report</u>
10.1	The purpose of commissioning the system is explained in terms of the national standard, meeting the design and client acceptance criteria.	
10.2	Limitations to commissioning are described in accordance with relevant health and safety legislation.	
10.3	Test methods are described in accordance with the relevant legislation/standard.	
10.4	Zoning of fire detection system is described in relation to the effect on the particular building type and the relevant national standard.	
10.5	The link between detection and gaseous extinguishing systems or other fixed fire	

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Page 6 of 9	REGISTRATION AS A SPECIFIED CATEGORY PRACTITIONER: Fire Protection Systems Certified Code: Fire Detection	
Form No.: APP-SC1.1		
Effective Date: 12 February 2018		
Rev no: 0		
	protection systems is explained in relation to the overall design criteria.	
10.6	The commissioning process is explained in terms of national standards.	
10.7	Consequences of non-compliance of the system are explained in terms of the potential impact to safety and loss control.	
11.	Show your knowledge on how to activate and test systems	
11.1	The system is initialised and checked for operation in accordance with design criteria.	
11.2	Operation of ancillary devices are confirmed to be in accordance with design criteria.	
11.3	Faults are rectified in accordance with manufacturer or design specifications.	
11.4	Information for a suitable fire detection system is obtained from the client and designed in accordance with known and proven specifications.	
11.5	Test equipment is used in accordance with design approval.	
12.	Describe how you inspect systems	
12.1	The installation is confirmed to be in accordance with the building plans.	
12.2	The installation is checked for conformance to the design drawings.	
12.3	The main electricity supply is confirmed to be correct in accordance with national standards proven design criteria.	
12.4	The system is confirmed to meet engineering and safety requirements.	
13.	Describe how you certify the system	
13.1	The system is confirmed to be in accordance with the approved design.	
13.2	The system is confirmed to meet all the requirements of the national standards	
13.3	Relevant documentation and manuals are completed in accordance with national standards.	
13.4	Documentation is distributed in accordance with legislative and national standard requirements.	
13.5	The end user is briefed on the operation of the system in accordance with system requirements and user responsibilities.	


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Page 7 of 9	REGISTRATION AS A SPECIFIED CATEGORY PRACTITIONER: Fire Protection Systems Certified Code: Fire Detection	
Form No.: APP-SC1.1		
Effective Date: 12 February 2018		
Rev no: 0		

REPORT MAINTAINER:


14.	Demonstrate knowledge of maintaining the systems	
<u>Item</u>	<u>Requirements</u>	<u>Report</u>
14.1	Different types of fire detection systems are identified and described in terms of their applicability to the system.	
14.2	Different systems are described in terms of their main functions and maintenance procedures.	
14.3	For fire detection systems, the interconnection between different systems is described in terms of their importance in fire protection.	
14.4	Maintenance tasks and relevant equipment are described in accordance with accepted industry standards.	
14.5	Maintenance intervals are identified in accordance with manufacturer specifications and national standards	
14.6	Safety requirements are described as they relate to specific zones.	
15.	Describe how a particular system is tested	
15.1	The functionality of components and ancillary devices are confirmed to be in accordance with design criteria.	
15.2	The fire detection panel is tested in accordance with manufacturer specifications.	
15.3	Fire detection systems are tested in accordance with accepted codes of practice.	
15.4	For smoke control systems, the interconnection with fire detection systems are tested in accordance with manufacturers specifications.	
15.5	Tests are conducted without causing damage to property or equipment.	
15.6	Work is conducted in accordance with legislative safety requirements.	
15.7	The system is confirmed to be operational in accordance with design criteria.	
16.	Describe how to repair the particular system	
16.1	Faults with the system are identified and repaired or reported in accordance with design criteria.	

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Page 8 of 9	REGISTRATION AS A SPECIFIED CATEGORY PRACTITIONER: Fire Protection Systems Certified Code: Fire Detection	
Form No.: APP-SC1.1		
Effective Date: 12 February 2018		
Rev no: 0		
16.2	Replacement components are identified in terms of applicability and availability.	
16.3	Components are replaced in accordance with manufacturer specifications.	
16.4	Recommendations are made in relation to additions and rectifications.	
17.	Describe how to report maintenance procedures	
17.1	The system is confirmed to be in accordance with the design.	
17.2	Relevant documentation is completed in accordance with legislative requirements.	
17.3	Documentation is distributed in accordance with legislative requirements.	
17.4	The end user is briefed on the operation of the system in accordance with system requirements and user responsibilities.	

REPORT INSPECTOR:		
18.	Demonstrate knowledge of inspecting the systems	
<u>Item</u>	<u>Requirements</u>	<u>Report</u>
18.1	Different types of fire detection systems are identified and described in terms of their applicability to the system.	
18.2	Different systems are described in terms of their main functions and inspection procedures.	
18.3	For fire detection systems, the interconnection between different systems is described in terms of their importance in fire protection.	
18.4	Inspection tasks and relevant equipment are described in accordance with accepted industry standards.	
18.5	Inspection intervals are identified in accordance with manufacturer specifications and national standards.	
18.6	Safety requirements are described as they relate to specific zones.	
19.	Describe how a particular system is inspected	
19.1	The functionality of components and ancillary devices are confirmed to be in accordance with design criteria.	
19.2	The fire detection panel is tested in accordance with manufacturer specifications.	
19.3	Fire detection systems are tested in accordance with accepted codes of practice.	

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Page 9 of 9		REGISTRATION AS A SPECIFIED CATEGORY PRACTITIONER: Fire Protection Systems Certified Code: Fire Detection	
Form No.: APP-SC1.1			
Effective Date: 12 February 2018			
Rev no: 0			
19.4	For smoke control systems, the interconnection with fire detection systems are tested in accordance with manufacturers specifications.		
19.5	Inspections are conducted without causing damage to property or equipment.		
19.6	Inspections are conducted in accordance with legislative safety requirements.		
19.7	The system is confirmed to be operational in accordance with design criteria.		
20.	Describe how particular system inspection findings are evaluated		
20.1	Faults with the system are identified and reported in accordance with design criteria.		
20.2	Replacement components are identified in terms of applicability and availability.		
20.3	Replacement components are inspected in accordance with manufacturer specifications.		
20.4	Recommendations are made in relation to additions and rectifications.		
21.	Describe how to report inspection procedures		
21.1	The system is confirmed to be in accordance with the design.		
21.2	Relevant documentation is completed in accordance with legislative requirements.		
21.3	Documentation is distributed in accordance with legislative requirements.		
21.4	The end user is briefed on the operation of the system in accordance with system requirements and user responsibilities.		

Signature of Applicant: _____ Date: _____

Signature of Mentor / Supervisor: _____

Name of Mentor/Supervisor printed: _____

Tel. No.: _____