

IQP Guidance for Waikato, Western / Bay of Plenty & Central North Island Region Territorial Authorities



Waikato, Western / Bay of Plenty & Central North Island Region Territorial Authorities Incorporating:

- Hamilton City Council • Hauraki District Council • Kawerau District Council • Matamata / Piako District Council
- Opotiki District Council • Otorohanga District Council • Rotorua District Council • Ruapehu District Council
- South Waikato District Council • Taupo District Council • Tauranga City Council
- Thames Coromandel District Council • Waikato District Council • Waipa District Council
- Waitomo District Council • Western Bay of Plenty District Council • Whakatane District Council

IQP Guidance and Framework

SS1	Automatic system for fire suppression	<p>Evidence of experience as a Sprinkler Systems Technician and Knowledge of <i>NZS 4541, NZS 4515, AS 1851 and NFPA25</i></p> <p>and</p> <p>Knowledge of gas foam flood, or deluge systems</p> <p>and</p> <p>Knowledge of Building code clauses C1-C6 and acceptable solutions and means of complying</p> <p>and either</p> <p>National certificate in fixed fire protection systems level 4, or; NZ certificate in mechanical engineering level 4, or; NZ diploma in engineering level 6, or; Equivalent relevant qualifications equal to the above. E.g. overseas qualifications</p> <p>and</p> <p>Mandatory Building Act 2004 knowledge of:</p> <ul style="list-style-type: none"> - Buildings not to be altered etc section 40 - Compliance schedules Building Warrant of Fitness Sections 100-107 - Annual Building Warrant of fitness Section 108-111 - Key roles of; Owners, IQPs, Territorial Authority, Building Consent Authority and The Courts
SS2	Automatic or manual fire alarms	<p>Evidence of experience with fire alarm, installation, testing, maintenance, and inspection</p> <p>and</p> <p>Knowledge of <i>NZS 4512, AS1851, NZS 4541, NZS 5263, NZS 4561 AS 2220</i></p> <p>and</p> <p>Knowledge of the building code clause F7 Warning systems the acceptable solutions and means of complying</p> <p>and either</p> <p>National certificate in fire detection and alarm systems level 4, or; Equivalent relevant qualifications equal to the above. E.g. overseas qualifications.</p> <p>and</p> <p>Mandatory Building Act 2004 knowledge of:</p> <ul style="list-style-type: none"> - Buildings not to be altered etc section 40 - Compliance schedules Building Warrant of Fitness Sections 100-107

IQP Guidance for Waikato, Western / Bay of Plenty & Central North Island Region Territorial Authorities



		<ul style="list-style-type: none"> - Annual Building Warrant of fitness Section 108-111 - Key roles of; Owners, IQPs, Territorial Authority, Building Consent Authority and The Courts
SS3/1	Automatic doors	<p>Evidence of experience as an installation and maintenance technician <i>Note: It is essential that the type of doors to be inspected is identified in the application.</i></p> <p>and</p> <p>Knowledge of NZS 4239, AS4085, AS4178, AS4290, AS5007</p> <p>and</p> <p>Knowledge of building code clauses C1-C6, acceptable solutions and means of complying</p> <p>and either</p> <p>Electrical service technician, or; Electrical inspector, or; Registered electrician, or; Electrical engineer, or; Equivalent relevant qualifications equal to the above. E.g. overseas qualifications.</p> <p>and</p> <p>Mandatory Building Act 2004 knowledge of:</p> <ul style="list-style-type: none"> - Buildings not to be altered etc section 40 - Compliance schedules Building Warrant of Fitness Sections 100-107 - Annual Building Warrant of fitness Section 108-111 - Key roles of; Owners, IQPs, Territorial Authority, Building Consent Authority and The Courts
SS3/2	Access controlled doors	<p>Evidence of experience as an installation and maintenance technician. <i>Note: It is essential that the type of doors to be inspected is identified in the application.</i></p> <p>and</p> <p>Knowledge of NZS 4239, AS4085, AS4178, AS4290, AS5007</p> <p>and</p> <p>Knowledge of building code clauses C1-C6, acceptable solutions and means of complying</p> <p>and either</p> <p>Electrical service technician, or; Electrical inspector, or; Registered electrician, or; Electrical engineer, or; Equivalent relevant qualifications equal to the above. E.g. overseas qualifications.</p> <p>and</p> <p>Mandatory Building Act 2004 knowledge of:</p> <ul style="list-style-type: none"> - Buildings not to be altered etc section 40 - Compliance schedules Building Warrant of Fitness Sections 100-107 - Annual Building Warrant of fitness Section 108-111 - Key roles of; Owners, IQPs, Territorial Authority, Building Consent Authority and The Courts

IQP Guidance for Waikato, Western / Bay of Plenty & Central North Island Region Territorial Authorities



SS3/3	Interfaced fire or smoke doors	<p>Evidence of experience as an installation and maintenance Technician and Knowledge of <i>NZS 4512, AS1851, NZS 4541, NZS 5263, NZS 4561, AS2220</i> and Knowledge of the building code clause F7 Warning systems the acceptable solutions and means of complying and either National certificate in fire detection and alarm systems level 4, or; Electrical service technician, or; Electrical inspector, or; Registered electrician, or; Electrical engineer, or; Equivalent relevant qualifications equal to the above. E.g. overseas qualifications and Mandatory Building Act 2004 knowledge of:</p> <ul style="list-style-type: none"> - Buildings not to be altered etc section 40 - Compliance schedules Building Warrant of Fitness Sections 100-107 - Annual Building Warrant of fitness Section 108-111 - Key roles of; Owners, IQPs, Territorial Authority, Building Consent Authority and The Courts
SS4	Emergency lighting systems	<p>Evidence of experience as an installation, testing and maintenance technician and Knowledge of <i>AS/NZS 2293, NZS 6742, NZS 6104</i>, building code F6 Visibility in escape routes, acceptable solutions and means of complying and either Electrical service technician, or; Electrical inspector, or; Registered electrician or; Diploma in electrics or electronics, or; Equivalent relevant qualifications equal to the above. E.g. overseas qualifications and Mandatory Building Act 2004 knowledge of:</p> <ul style="list-style-type: none"> - Buildings not to be altered etc section 40 - Compliance schedules Building Warrant of Fitness Sections 100-107 - Annual Building Warrant of fitness Section 108-111 - Key roles of; Owners, IQPs, Territorial Authority, Building Consent Authority and The Courts
SS5	Escape route pressurisation systems	<p>Evidence of experience in installation, design, commissioning, maintenance, and testing of systems and Knowledge of <i>AS 1668. 1, NZS 3666, Building Code C1-6</i>, acceptable solutions and means of compliance and either Registered fire engineer or; Mechanical engineer, or; Registered electrician, or;</p>

IQP Guidance for Waikato, Western / Bay of Plenty & Central North Island Region Territorial Authorities



		<p>Electrical inspector, or; Trade certificate or similar in heating ventilation and air conditioning or; Equivalent relevant qualifications equal to the above. E.g. overseas qualifications</p> <p>and</p> <p>Mandatory Building Act 2004 knowledge of:</p> <ul style="list-style-type: none"> - Buildings not to be altered etc section 40 - Compliance schedules Building Warrant of Fitness Sections 100-107 - Annual Building Warrant of fitness Section 108-111 - Key roles of; Owners, IQPs, Territorial Authority, Building Consent Authority and The Courts
SS6	Riser mains	<p>Evidence of experience in sprinkler installation, testing, maintenance, and inspection</p> <p>and</p> <p>Knowledge of NZS 4541, NZS 4515, AS 1851 and NFPA25 and Backflow Prevention</p> <p>and</p> <p>Knowledge of Building code clauses C1-C6 and acceptable solutions and means of complying</p> <p>and either</p> <p>National certificate in fixed fire protection systems level 4, or; NZ certificate in mechanical engineering level 4, or; NZ diploma in engineering level 6, or; Equivalent relevant qualifications equal to the above. E.g. overseas qualifications.</p> <p>And</p> <p>Mandatory Building Act 2004 knowledge of:</p> <ul style="list-style-type: none"> - Buildings not to be altered etc section 40 - Compliance schedules Building Warrant of Fitness Sections 100-107 - Annual Building Warrant of fitness Section 108-111 - Key roles of; Owners, IQPs, Territorial Authority, Building Consent Authority and The Courts
SS7	Automatic backflow Preventers	<p>Evidence of experience in installing, maintaining and testing backflow preventers</p> <p>and</p> <p>Knowledge of G12/AS1 backflow prevention, AS 2845.3</p> <p>and either</p> <p>Registered plumber or; Completed apprenticeship in plumbing and certificate in backflow testing; or; Equivalent relevant qualifications equal to the above e.g. overseas qualifications</p> <p>And</p> <p>Mandatory Building Act 2004 knowledge of:</p> <ul style="list-style-type: none"> - Buildings not to be altered etc section 40 - Compliance schedules Building Warrant of Fitness Sections 100-107 - Annual Building Warrant of fitness Section 108-111

IQP Guidance for Waikato, Western / Bay of Plenty & Central North Island Region Territorial Authorities



		<ul style="list-style-type: none"> - Key roles of; Owners, IQPs, Territorial Authority, Building Consent Authority and The Courts
SS8	Passenger lifts, service lifts and escalators	<p>Evidence of experience in installation, design, commissioning, maintenance, and testing of systems</p> <p>and</p> <p>Knowledge of <i>NZS 4332, NZS4334, EN81</i>, building code <i>D1</i> and <i>D2</i> and the acceptable solutions and means of compliance</p> <p>and</p> <p>Certificate of proficiency</p> <p>and either</p> <p>Trade certificate in electrical, or;</p> <p>Equivalent relevant qualifications equal to the above e.g. overseas qualifications.</p> <p>and</p> <p>Mandatory Building Act 2004 knowledge of:</p> <ul style="list-style-type: none"> - Buildings not to be altered etc section 40 - Compliance schedules Building Warrant of Fitness Sections 100-107 - Annual Building Warrant of fitness Section 108-111 - Key roles of; Owners, IQPs, Territorial Authority, Building Consent Authority and The Courts
SS9	Mechanical ventilation or air conditioning systems	<p>Evidence of experience in installation, design, commissioning, maintenance, and testing of systems in commercial buildings</p> <p>and</p> <p>Knowledge of the building code C and G4 Clauses.</p> <p>Knowledge of <i>NZS 4302, AS/NZS 4303, AS/NZS 3666, AS/NZS1668, AS/NZS 1905</i></p> <p>and either</p> <p>Trade certificate in heating ventilation and air conditioning, or;</p> <p>National certificate in Heating Ventilation and Air Conditioning, or;</p> <p>Diploma in applied engineering refrigeration and air conditioning, or;</p> <p>Diploma in mechanical engineering level 6, or;</p> <p>Registered mechanical engineer, or;</p> <p>Equivalent relevant qualifications equal to the above e.g. overseas qualifications.</p> <p>And</p> <p>Mandatory Building Act 2004 knowledge of:</p> <ul style="list-style-type: none"> - Buildings not to be altered etc section 40 - Compliance schedules Building Warrant of Fitness Sections 100-107 - Annual Building Warrant of fitness Section 108-111 - Key roles of; Owners, IQPs, Territorial Authority, Building Consent Authority and The Courts
SS10	Building maintenance units	<p>Evidence of experience in installation, design, commissioning, maintenance, and testing of systems</p> <p>and</p> <p>Knowledge of <i>BS6037</i> and unit standard 15757 Height Safety Advanced</p> <p>and either</p> <p>Trade certificate as a Fitter and Turner, or;</p>

IQP Guidance for Waikato, Western / Bay of Plenty & Central North Island Region Territorial Authorities



		<p>Registered structural or mechanical engineer, or; CpEng engineer, or; Equivalent relevant qualifications equal to the above e.g. overseas qualifications.</p> <p>and Mandatory Building Act 2004 knowledge of:</p> <ul style="list-style-type: none"> - Buildings not to be altered etc section 40 - Compliance schedules Building Warrant of Fitness Sections 100-107 - Annual Building Warrant of fitness Section 108-111 - Key roles of; Owners, IQPs, Territorial Authority, Building Consent Authority and The Courts
SS11	Laboratory fume cupboards	<p>Evidence of experience in installation, design, commissioning, maintenance, and testing of systems</p> <p>and Knowledge of <i>AS/NZS 2243, AS/NZS 3500, NZS 7203</i>, building code F3</p> <p>and either Electrical service technician, or; Registered Electrician, or; Registered Plumber, or; National certificate in heating ventilation and air conditioning, or; Diploma in building services level 6, or; Degree in mechanical engineering, or; Equivalent relevant qualifications equal to the above e.g. overseas qualifications</p> <p>and Mandatory Building Act 2004 knowledge of:</p> <ul style="list-style-type: none"> - Buildings not to be altered etc section 40 - Compliance schedules Building Warrant of Fitness Sections 100-107 - Annual Building Warrant of fitness Section 108-111 - Key roles of; Owners, IQPs, Territorial Authority, Building Consent Authority and The Courts
SS12	Audio loops or other listening systems	<p>Evidence of experience in installation, design, commissioning, maintenance, and testing of systems</p> <p>and Knowledge of <i>NZS 4121, F7, AS1008</i> and <i>G5</i></p> <p>and either Registered radio serviceman, or; Registered electronics technician, or; Radio technician trade certificate, or; Registered electrician, or; Equivalent relevant qualifications equal to the above e.g. overseas qualifications.</p> <p>and Mandatory Building Act 2004 knowledge of:</p> <ul style="list-style-type: none"> - Buildings not to be altered etc section 40 - Compliance schedules Building Warrant of Fitness Sections 100-107 - Annual Building Warrant of fitness Section 108-111

IQP Guidance for Waikato, Western / Bay of Plenty & Central North Island Region Territorial Authorities



		<ul style="list-style-type: none"> - Key roles of; Owners, IQPs, Territorial Authority, Building Consent Authority and The Courts
SS13	Mechanical Smoke control systems	<p>Evidence of experience in installation, design, commissioning, maintenance, and testing of systems</p> <p>and</p> <p>knowledge of NZS 4520, AS1682, AS1530, AS 1851-2005 and building code C Clauses</p> <p>and either</p> <p>Trade certificate in heating ventilation and air conditioning, or; Fire Engineer or; National certificate in Heating Ventilation and Air Conditioning, or; Diploma in applied engineering refrigeration and air conditioning, or; Diploma in mechanical engineering level 6, or; Registered mechanical engineer, or; Equivalent relevant qualifications equal to the above e.g. overseas qualifications.</p> <p>Note: Independent assessment may be required where there is insufficient qualification, experience.</p> <p>and</p> <p>Mandatory Building Act 2004 knowledge of:</p> <ul style="list-style-type: none"> - Buildings not to be altered etc section 40 - Compliance schedules Building Warrant of Fitness Sections 100-107 - Annual Building Warrant of fitness Section 108-111 - Key roles of; Owners, IQPs, Territorial Authority, Building Consent Authority and The Courts
SS14/1	Emergency power systems	<p>Evidence of experience in installation, design, commissioning, maintenance, and testing of systems</p> <p>and</p> <p>Knowledge of NZS 6104, NZS 4121, NZS 6742, AS 1851-2005</p> <p>and either</p> <p>Mechanical engineer, or; Registered electrician/inspector, or; Diesel engineer/mechanic, or; Automotive engineer, or; Equivalent relevant qualifications equal to the above e.g. overseas qualifications, or; A grade automotive engineer</p> <p>and</p> <p>Mandatory Building Act 2004 knowledge of:</p> <ul style="list-style-type: none"> - Buildings not to be altered etc section 40 - Compliance schedules Building Warrant of Fitness Sections 100-107 - Annual Building Warrant of fitness Section 108-111 - Key roles of; Owners, IQPs, Territorial Authority, Building Consent Authority and The Courts
SS14/2	Signs: including for systems 1-13 and for communicating...	<p>Evidence of experience in installation, design, commissioning, maintenance, and testing of signs</p> <p>and</p>

IQP Guidance for Waikato, Western / Bay of Plenty & Central North Island Region Territorial Authorities



	information intended to facilitate evacuation	<p>Knowledge of the building code F8 and F8/AS1, C clauses, D1/AS1</p> <p>and</p> <p>Mandatory Building Act 2004 knowledge of:</p> <ul style="list-style-type: none"> - Buildings not to be altered etc section 40 - Compliance schedules Building Warrant of Fitness Sections 100-107 - Annual Building Warrant of fitness Section 108-111 - Key roles of; Owners, IQPs, Territorial Authority, Building Consent Authority and The Courts
SS15/1	Systems for communication spoken information intended to facilitate evacuation	<p>Evidence of experience in the fire protection industry which may include installation, design, commissioning, maintenance, and testing of fire alarm system, along with evidence of suitable experience working with building regulations, specified systems and forms regulations</p> <p>and</p> <p>Thorough knowledge of Fire and Emergency NZ (Fire safety, evacuation procedures, and evacuation schemes) Regulations 2018</p> <p>and</p> <p>Thorough knowledge of the specific requirements of AS1670.4 with regards to staged evacuation systems and intercommunication systems</p> <p>and</p> <p>Knowledge of NZS 4512, AS1851, NZS 4541, NZS 5263, NZS 4561 AS 2220</p> <p>and either</p> <p>National Certificate in Fire Detection and Alarm Systems, or; National Certificate in Fire Detection and Alarm Systems (testing), or; National Certificate in Fire Protection Systems Technology (inspection and testing), or; Equivalent relevant qualifications equal to the above. E.g. overseas qualifications.</p> <p>and</p> <p>Mandatory Building Act 2004 knowledge of:</p> <ul style="list-style-type: none"> - Buildings not to be altered etc section 40 - Compliance schedules Building Warrant of Fitness Sections 100-107 - Annual Building Warrant of fitness Section 108-111 - Key roles of; Owners, IQPs, Territorial Authority, Building Consent Authority and The Courts
SS15/2	Final exits	<p>Evidence of experience in the fire protection industry which may include in passive fire installations, maintenance, and inspections</p> <p>and</p> <p>Evidence of a thorough working knowledge, and suitable experience of working with of NZSS 1900 chapter 5, Clause D1 NZBC and approved documents. Clause C2 NZBC and approved documents. NZS 4121</p> <p>and</p> <p>Thorough knowledge of Fire and Emergency NZ (Fire safety, evacuation procedures, and evacuation schemes) Regulations 2018</p> <p>and either</p> <p>National certificate in passive fire, or; Fire engineer, or; Equivalent relevant qualifications equal to the above. E.g. overseas qualifications.</p>

IQP Guidance for Waikato, Western / Bay of Plenty & Central North Island Region Territorial Authorities



		<p>and Mandatory Building Act 2004 knowledge of:</p> <ul style="list-style-type: none"> - Buildings not to be altered etc section 40 - Compliance schedules Building Warrant of Fitness Sections 100-107 - Annual Building Warrant of fitness Section 108-111 - Key roles of; Owners, IQPs, Territorial Authority, Building Consent Authority and The Courts
SS15/3	Fire separations	<p>Evidence of experience in the fire protection industry which may include in passive fire installations, maintenance, and inspections</p> <p>and Thorough knowledge of Fire and Emergency NZ (Fire safety, evacuation procedures, and evacuation schemes) Regulations 2018</p> <p>and Knowledge of building code C clauses, D1 and D1/ AS1 NZS 4121, NZS 1900</p> <p>and either National certificate in passive fire, or; Fire engineer, or; Equivalent relevant qualifications equal to the above. E.g. overseas qualifications.</p> <p>and Mandatory Building Act 2004 knowledge of:</p> <ul style="list-style-type: none"> - Buildings not to be altered etc section 40 - Compliance schedules Building Warrant of Fitness Sections 100-107 - Annual Building Warrant of fitness Section 108-111 - Key roles of; Owners, IQPs, Territorial Authority, Building Consent Authority and The Courts
SS15/4	Signs for communicating information intended to facilitate evacuation	<p>Evidence of experience in installation, design, commissioning, maintenance, and testing of signs</p> <p>and Evidence of a thorough working knowledge of NZSS 1900 chapter 5 and approved documents Clause C2 NZBC as they relate to exit and evacuation signage.</p> <p>and Knowledge of the building code F8 and F8/AS1, C clauses, D1/AS1</p> <p>and Mandatory Building Act 2004 knowledge of:</p> <ul style="list-style-type: none"> - Buildings not to be altered etc section 40 - Compliance schedules Building Warrant of Fitness Sections 100-107 - Annual Building Warrant of fitness Section 108-111 - Key roles of; Owners, IQPs, Territorial Authority, Building Consent Authority and The Courts
SS15/5	Smoke separations	<p>Evidence of experience in the fire protection industry which may include in passive fire installations, maintenance, and inspections</p> <p>and Thorough knowledge of Fire and Emergency NZ (Fire safety, evacuation procedures, and evacuation schemes) Regulations 2018</p> <p>and</p>

IQP Guidance for Waikato, Western / Bay of Plenty & Central North Island Region Territorial Authorities



		<p>Knowledge of building code C clauses, D1 and D1/ AS1 NZS 4121, NZS 1900 and either National certificate in passive fire, or; Fire engineer, or; Equivalent relevant qualifications equal to the above. E.g. overseas qualifications. and Mandatory Building Act 2004 knowledge of:</p> <ul style="list-style-type: none"> - Buildings not to be altered etc section 40 - Compliance schedules Building Warrant of Fitness Sections 100-107 - Annual Building Warrant of fitness Section 108-111 - Key roles of; Owners, IQPs, Territorial Authority, Building Consent Authority and The Courts
SS16	Cable Cars	<p>Evidence of work experience associated with the installation, maintenance and testing of cable cars and Evidence of experience in passenger lift maintenance and inspection procedures. Electrical registration, or trade certificate in fitting, turning, machining, welding. and Thorough knowledge of NZS 5270: 2005 and Standard NZS 5270:2005; Practical and written evidence of inspections and maintenance having previously being carried out utilizing this standard, that include some or all the following: Machinery and machinery space, Runway (tracks), Car, Landing doors, Operation, Clearances (car/platforms, car/runway, crush hazards, end clearances between car & fixed objects), Landings, Visual checks, Check of maintenance records and Mandatory Building Act 2004 knowledge of:</p> <ul style="list-style-type: none"> - Buildings not to be altered etc section 40 - Compliance schedules Building Warrant of Fitness Sections 100-107 - Annual Building Warrant of fitness Section 108-111 - Key roles of; Owners, IQPs, Territorial Authority, Building Consent Authority and The Courts