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GOVERNMENT NOTICES • GOEWERMENTSKENNISGEWINGS

DEPARTMENT OF HOME AFFAIRS

NO. 1727

2 February 2022

IMMIGRATION ACT, 2002**(Act No. 13 of 2002)****[Sections 19(4), read with Regulations 18(1) and 18(5)]****CRITICAL SKILLS LIST**

I, Dr. P.A. Motsoaledi, Minister of Home Affairs, hereby, in terms of sections 19(4) of the Immigration Act, 2002 (Act No. 13 of 2002), determine the following skills or qualifications to be critical for the Republic of South Africa in relation to an application for a critical skills work visa or permanent residence permit.



DR P.A. MOTSOALEDI, MP
MINISTER OF HOME AFFAIRS

DATE:

2/2/2022

SCHEDULE

Number	OFO-code	Occupation name	Description (OFO)	Minimum Qualification required	Statutory professional body
1	2019-112101	Director (Enterprise / Organisation) (medium enterprises or larger)	Determines, formulates, and reviews the general policy program and the overall direction of an organisation, within the framework established by a board of directors or a similar governing body.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
2	2019-121301	Policy Planning Manager and	Plans, develops, organises, directs, controls and coordinates policy advice and strategic planning within organisations.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
3	2019-121901	Corporate General Manager (medium enterprises or larger)	Plans, organises, directs, controls and reviews the day-to-day operations and major functions of a commercial, industrial or other organisation (excluding government or local government) through departmental managers and subordinate executives.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
4	2019-121905	Programme or Project Manager	Plans, organises, directs, controls and coordinates special programmes or projects.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
5	2019-121908	Quality Systems Manager	Plans, organises, directs, controls and coordinates the deployment of quality systems and certification processes within an organisation.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
6	2019-122105	Customer Service Manager (Business Process Outsourcing sector)	Plans, administers and reviews customer services and after-sales services and maintains sound customer relations.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
7	2019-122301	Research and Development Manager	Plans, organises, directs, controls and coordinate research and development activities within organisations.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)

Number	OFO-code	Occupation name	Description (OFO)	Minimum Qualification required	Statutory professional body
				Degree (NQF Level 8)	
8	2019-132102	Manufacturing Operations Manager	Plans, organises, directs and controls the manufacturing activities of an organisation including physical and human resources. Measures performance, quality and implements continuous improvement strategies.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
9	2019-132104	Engineering Manager	Plans, organises, directs, controls and coordinates the design, operation and construction of engineering and process plants and mining operations.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	ECSA (Engineering Council of South Africa)
10	2019-132401	Supply and Distribution Manager	Plans, administers and reviews the supply, storage and distribution of equipment, materials and goods used and produced by an organisation, enterprise or business.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
11	2019-133101	Chief Information Officer	Plans, organises, directs controls and coordinates the ICT strategies, plans and operations of an organisation to ensure the ICT infrastructure supports the organisation's overall operations and priorities.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
12	2019-133103	Data Management Manager	Plans, coordinates, and supervises all activities related to the design, development, and implementation of organizational data base systems.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
13	2019-134901	Environmental Manager	Plans, organises, directs, controls and coordinates the development and implementation of an environmental management system within an organisation by identifying, solving and alleviating environmental issues such as pollution and waste treatment in compliance with environmental legislation and ensures corporate sustainable development.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	EAPA-SA (Environmental Assessment Practitioners Association of South Africa); SACNASP (South African Council for Natural Scientific Professions)
14	2019-143905	Call or Contact Centre Manager	Manages the performance of call centre workers, processes and	Bachelor Honours Degree,	Professional body, council or board recognised by

Number	OFO-code	Occupation name	Description (OFO)	Minimum Qualification required	Statutory professional body
			technology against financial and non-financial operational targets.	Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	SAQA as contemplated in Regulation 9(5)(a)
15	2019-211101	Physicist	Studies matter, space, time, energy, forces and fields and the interrelationship between these physical phenomena to further understanding of the laws governing the behaviour of the universe, and seeks to apply these laws to solve practical problems and discover new information about the earth and the universe.	Master's Degree (NQF Level 9)	SAIP (South African Institute of Physics); SACNASP (South African Council for Natural Scientific Professions)
16	2019-211205	Climate Change Scientist	Evaluate scientific data carries out research on the climate to create predictive models of likely changes in the earth's climate, and concomitant impacts on natural ecosystems and civilisation	Master's Degree (NQF Level 9)	EAPA-SA (Environmental Assessment Practitioners Association of South Africa); SACNASP (South African Council for Natural Scientific Professions)
17	2019-211301	Chemist	Studies the chemical and physical properties of substances, and develops and monitors chemical processes and production.	Master's Degree (NQF Level 9)	SAIP (South African Institute of Physics); SACNASP (South African Council for Natural Scientific Professions)
18	2019-211401	Geologist	Studies the composition, structure and other physical attributes of the earth to increase scientific knowledge and to develop practical applications in fields such as mineral exploration, civil engineering, environmental protection and rehabilitation of land after mining.	Master's Degree (NQF Level 9)	SAGC (South African Geomatics Council); SACNASP (South African Council for Natural Scientific Professions)
19	2019-211402	Geophysicist	Studies the composition, structure and other physical attributes of the earth, locates minerals, petroleum or ground water, and detects, monitors and forecasts seismic, magnetic, electrical, thermal and oceanographic activity.	Master's Degree (NQF Level 9)	SAIP (South African Institute of Physics); SACNASP (South African Council for Natural Scientific Professions); SAGC (South African Geomatics Council);
20	2019-211403	Materials Scientist	Studies the properties and uses of non-metallic materials and advises on the technical aspects of their manufacture and processing.	Master's Degree (NQF Level 9)	SAGC (South African Geomatics Council); SACNASP (South African Council for Natural Scientific Professions)
21	2019-211405	Mineralogist	Studies the chemistry, crystal structure, and physical (including optical) properties of minerals.	Master's Degree (NQF Level 9)	SACNASP (South African Council for Natural Scientific Professions)
22	2019-211406	Hydrologist	Research the distribution, circulation and physical properties of underground and surface waters; and the form and	Master's Degree (NQF Level 9)	SACNASP (South African Council for Natural Scientific Professions)

Number	OFO-code	Occupation name	Description (OFO)	Minimum Qualification required	Statutory professional body
			intensity of precipitation, its rate of infiltration into the soil, movement through the earth, and its return to the ocean and atmosphere.		
23	2019-211407	Oceanographer	Studies the physical, chemical and biological properties of the ocean water masses	Master's Degree (NQF Level 9)	SACNASP (South African Council for Natural Scientific Professions)
24	2019-212101	Actuary	Analyses mathematical, statistical, demographic, financial or economic data to predict and assess the long-term risk involved in financial decisions and planning.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	ASSA (Actuarial Society of South Africa)
25	2019-213102	General Biologist	Studies the origin, anatomy, physiology, reproduction and behaviour of living organisms and the ways in which they interact with the environment in which they live.	Master's Degree (NQF Level 9)	SACNASP (South African Council for Natural Scientific Professions)
26	2019-213105	Biotechnologist	Studies the anatomy, physiology and characteristics of living organisms and isolated biological molecules, and develops new materials for applying to a range of purposes.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	SACNASP (South African Council for Natural Scientific Professions)
27	2019-213108	Microbiologist	Studies microscopic forms of life such as bacteria, viruses and protozoa.	Master's Degree (NQF Level 9)	SACNASP (South African Council for Natural Scientific Professions)
28	2019-213109	Zoologist	Studies the anatomy, physiology, characteristics, ecology, behaviour and environments of animals.	Master's Degree (NQF Level 9)	SACNASP (South African Council for Natural Scientific Professions)
29	2019-213202	Agricultural Scientist	Studies commercial plants, animals and cultivation techniques to enhance the productivity of farms and agricultural industries.	Master's Degree (NQF Level 9)	SACNASP (South African Council for Natural Scientific Professions); ECSA (Engineering Council of South Africa)
30	2019-213205	Food and Beverage Scientist	Studies the physical and chemical properties of food and beverages and develops new and improved food and beverage products, and sets standards for producing, packaging and marketing food and beverages.	Master's Degree (NQF Level 9)	SACNASP (South African Council for Natural Scientific Professions)
31	2019-213301	Conservation Scientist	Develops and implements programs and regulations for the protection of fish, wildlife and other natural resources.	Master's Degree (NQF Level 9)	SACNASP (South African Council for Natural Scientific Professions)
32	2019-213302	Environmental Scientist	Studies and develops policies and plans for the control of factors which may produce pollution, imbalance or degradation of the environment.	Master's Degree (NQF Level 9)	EAPA-SA (Environmental Assessment Practitioners Association of South Africa);

Number	OFO-code	Occupation name	Description (OFO)	Minimum Qualification required	Statutory professional body
					SACNASP (South African Council for Natural Scientific Professions)
33	2019-214101	Industrial Engineer	Investigates and reviews the utilisation of personnel, facilities, equipment and materials, current operational processes and established practices, to recommend improvement in the efficiency of operations in a variety of commercial, industrial and production environments.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	ECSA (Engineering Council of South Africa)
34	2019-214102	Industrial Engineering Technologist	Analyses and modifies new and existing industrial engineering technologies and applies them in the testing and implementation of industrial engineering projects.	Diploma or Advanced Certificate (NQF Level 6)	ECSA (Engineering Council of South Africa)
35	2019-214201	Civil Engineer	Plans, designs, organises and oversees the construction and operation of civil engineering projects such as structural, transportation or hydraulic engineering systems.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	ECSA (Engineering Council of South Africa)
36	2019-214202	Civil Engineering Technologist	Analyses and modifies new and existing engineering technologies and applies them in the testing and implementation of civil, mechanical, electrical or electronic engineering projects.	Diploma or Advanced Certificate (NQF Level 6)	ECSA (Engineering Council of South Africa)
37	2019-214401	Mechanical Engineer	Plans, designs, organises and oversees the assembly, erection, operation and maintenance of mechanical and process plant and installations.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	ECSA (Engineering Council of South Africa)
38	2019-214402	Mechanical Engineering Technologist	Analyses and modifies new and existing mechanical engineering technologies and applies them in the testing and implementation of mechanical engineering projects.	Diploma or Advanced Certificate (NQF Level 6)	ECSA (Engineering Council of South Africa)
39	2019-214403	Aeronautical Engineer	Performs and supervises engineering work concerned with the design, development, manufacture, maintenance and modification of aircraft for flight.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	ECSA (Engineering Council of South Africa)
40	2019-214404	Aeronautical Engineering Technologist	Analyses and modifies new and existing engineering technologies relating to the	Diploma or Advanced Certificate (NQF Level 6)	ECSA (Engineering Council of South Africa)

Number	OFO-code	Occupation name	Description (OFO)	Minimum Qualification required	Statutory professional body
			design and construction of aircraft for flight.		
41	2019-214405	Naval Architect	Designs, constructs and repairs ships, boats, other marine vessels and offshore structures, both civil and military.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	ECSA (Engineering Council of South Africa)
42	2019-214501	Chemical Engineer	Designs and prepares specifications for chemical process systems and the construction and operation of commercial-scale chemical plants, and supervises industrial processing, fabrication and manufacturing of products undergoing physical and chemical changes and related technologies.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	ECSA (Engineering Council of South Africa)
43	2019-214502	Chemical Engineering Technologist	Analyses and modifies new and existing chemical engineering technologies and applies them in the testing and implementation of chemical engineering projects.	Diploma or Advanced Certificate (NQF Level 6)	ECSA (Engineering Council of South Africa)
44	2019-214601	Mining Engineer	Plans and directs the engineering aspects of locating and extracting minerals (excluding Petroleum) from the earth.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	ECSA (Engineering Council of South Africa)
45	2019-214605	Metallurgist	Researches, develops, controls and provides advice on processes used in extracting metals from their ores, and processes used for casting, alloying, heat treating or welding refined metals, alloys and other materials to produce commercial metal products or develop new alloys and processes.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	ECSA (Engineering Council of South Africa) SACNASP (South African Council for Natural Scientific Professions)
46	2019-214901	Biomedical Engineer	Combines biology, engineering and medicine to help solve medical and scientific health problems.	Master's Degree (NQF Level 9)	ECSA (Engineering Council of South Africa)
47	2019-214904	Quantity Surveyor	Estimates and monitors construction costs from the feasibility stage, through tender preparation, to the construction period and beyond.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	SACQSP (South African Council for the Quantity Surveying Profession)
48	2019-214905	Agricultural Engineer	Performs and supervises engineering work related to the	Bachelor Honours	ECSA (Engineering Council of South Africa);

Number	OFO-code	Occupation name	Description (OFO)	Minimum Qualification required	Statutory professional body
			use and development of agricultural land, buildings, machines and equipment.	Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	SACNASP (South African Council for Natural Scientific Professions)
49	2019-214906	Agricultural Engineering Technologist	Analyses and modifies new and existing engineering technologies relating to the use and development of agricultural land, buildings, machines and equipment.	Diploma or Advanced Certificate (NQF Level 6)	ECSA (Engineering Council of South Africa); SACNASP (South African Council for Natural Scientific Professions)
50	2019-215102	Electrical Engineering Technologist	Analyses and modifies new and existing electrical engineering technologies and applies them in the testing and implementation of electrical engineering projects.	Diploma or Advanced Certificate (NQF Level 6)	ECSA (Engineering Council of South Africa)
51	2019-215103	Energy Engineer	Plans, designs, organises and oversees the construction or remodelling of energy generation plants and designs, develops, or evaluates energy related projects to reduce energy costs or improve energy efficiency.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	ECSA (Engineering Council of South Africa)
52	2019-215104	Energy Engineering Technologist	Analyses and modifies new and existing engineering technologies relating to the design and construction of nuclear reactors and auxiliary facilities.	Diploma or Advanced Certificate (NQF Level 6)	ECSA (Engineering Council of South Africa)
53	2019-215201	Electronics Engineer	Designs, develops, adapts, installs, tests and maintains electronic components, circuits and systems used for computer systems, communication systems and other industrial applications.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	ECSA (Engineering Council of South Africa)
54	2019-216101	Architect	Designs buildings and advises on the procurement of buildings, provides concepts, plans, specifications and detailed drawings, and negotiates with builders.	Master's Degree (NQF Level 9)	SACAP (South African Council for the Architectural Profession)
55	2019-216401	Urban and Regional Planner	Develops and implements plans and policies for the controlled use of urban and rural land, and advises on economic, environmental and social needs of land areas.	Master's Degree (NQF Level 9)	SACAP (South African Council for the Architectural Profession); SACLAP (South African Council for the Landscape Architectural Profession)
56	2019-216603	Multimedia Designer	Plans, designs and develops the production of digitally delivered information, promotional content, instructional material and entertainment through online and recorded digital media using static and animated	Bachelor's Degree or Advanced Diploma (NQF Level 7)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)

Number	OFO-code	Occupation name	Description (OFO)	Minimum Qualification required	Statutory professional body
			information, text, pictures, video and sound to produce information and entertainment tailored to an intended audience and purpose.		
57	2019-222114	Nurse Educator	Designs, plans, implements and evaluates the delivery of nursing education and staff development programs, and manages educational resources.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	SANC (South African Nursing Council)
58	2019-231101	University Lecturer – Senior Lecturer and above for only those CESM categories listed in Annexure 2	Lectures students and conducts tutorials in one or more subjects within a prescribed course of study at a university and conducts research in a particular field of knowledge.	Professional Doctoral Qualification (NQF Level 9) or Doctorate (NQF Level 10)	SACE (South African Council for Educators)
59	2019-233107	FET Phase School Teacher (Grades 10-12) – Only for STEM subjects	Teaches one or more subjects at FET phase, including subjects intended to prepare students for employment in specific occupational areas as well as vocational	Bachelor's Degree or Advanced Diploma (NQF Level 7)	SACE (South African Council for Educators)
60	2019-233108	Senior Phase School Teacher (Grades 8 - 9) – Only for STEM subjects	Teaches one or more subjects at FET phase of schooling.	Bachelor's Degree or Advanced Diploma (NQF Level 7)	SACE (South African Council for Educators)
61	2019-241103	Tax Professional	Analyses, reports and provides advice on taxation issues to tax entities, prepares and reviews tax returns and reports and handles disputes.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
62	2019-241104	External Auditor	Designs and operates information and reporting systems, procedures and controls to meet external financial reporting requirements.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
63	2019-241108	Forensic Accountant	Examines financial records to detect and deter fraud and white collar crime.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)

Number	OFO-code	Occupation name	Description (OFO)	Minimum Qualification required	Statutory professional body
64	2019-241201	Investment Analyst	Analyses individual securities, industries and the economy, publishes reports and makes recommendations regarding investments.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
65	2019-241202	Investment Manager	Manages a portfolio of securities, in which he/she may exercise his/her own discretion, on behalf of clients.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
66	2019-241203	Investment Advisor	Advises clients in respect of securities and other financial investments and instruments.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
67	2019-242103	Business Development Officer	Supports the coordination, implementation, monitoring and reporting of local economic development initiatives in creating a conducive environment for entrepreneurs and businesses, encouraging investment, job opportunities to improve the economy and social upliftment of an area.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
68	2019-242202	Policy Analyst	Collects and analyses information and data to produce intelligence for public or private sector organisations to support planning, operations and human resource functions.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
69	2019-242204	Corporate Treasurer	Manages corporate funding, liquidity and financial risk associated with the profitable development and operation of an organisation. May be involved in acquisitions, disposals and joint ventures.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
70	2019-242208	Organisational Risk Manager	Advises organisations on assessment processes to determine actual and potential risks pertaining to the organisation as a total entity.	Bachelor Honours Degree, Postgraduate Diploma, or Bachelor's Degree (NQF Level 8)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)

Number	OFO-code	Occupation name	Description (OFO)	Minimum Qualification required	Statutory professional body
71	2019-242211	Internal Auditor	Evaluates and improves the effectiveness of risk management, control, and governance processes within an organisation.	Bachelor's Degree or Advanced Diploma (NQF Level 7)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
72	2019-242402	Occupational Instructor (Air-Traffic Space)	Conducts and assesses training and development to ensure management and staff acquire the skills and develop the competencies required by an organisation to meet organisational objectives.	Bachelor's Degree or Advanced Diploma (NQF Level 7) and Air-traffic qualification not benchmarked to the NQF	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
73	2019-243102	Market Research Analyst	Determines the market for new goods and services, develops advertising strategies, and evaluates the best business sites for commercial organisations.	Master's Degree (NQF Level 9)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
74	2019-251101	ICT Systems Analyst	Evaluates processes and methods used in existing ICT systems, proposes modifications, additional system components or new systems to meet user needs as expressed in specifications and other documentation.	Bachelor's Degree or Advanced Diploma (NQF Level 7)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
75	2019-251102	Data Scientist	Data Scientist collect large amounts of unruly data and transform it into a more usable format. They Solve business-related problems using data driven techniques, They work with a variety of programming languages, including SAS, R and Python. They look for patterns in data, as well as spotting trends that can help businesses. Data Scientists use the most powerful programming systems and the most efficient algorithms to solve problems.	Bachelor's Degree or Advanced Diploma (NQF Level 7)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
76	2019-251201	Software Developer	Researches, analyzes and evaluates requirements for existing or new software applications and designs, develops, tests and maintains software solutions.	Bachelor's Degree or Advanced Diploma (NQF Level 7)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
77	2019-251202	Programmer Analyst	Designs, develops, modifies documents and tests, implements, installs and supports software applications and systems.	Bachelor's Degree or Advanced Diploma (NQF Level 7)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
78	2019-251203	Developer Programmer	Interprets specifications, technical designs and flow charts, builds, maintains and modifies the code for software applications, constructs	Bachelor's Degree or Advanced Diploma (NQF Level 7)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)

Number	OFO-code	Occupation name	Description (OFO)	Minimum Qualification required	Statutory professional body
			technical specifications from a business functional model, and tests and writes technical documentation.		
79	2019-251301	Multimedia Specialist	Creates and manipulates computer animation, audio, video and graphic image files into multimedia programs to produce data and content for information kiosks, multimedia presentations, web sites, mobile telephone resources, electronic gaming environments, e-commerce and e-security solutions, and entertainment and education products.	Bachelor's Degree or Advanced Diploma (NQF Level 7)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
80	2019-251401	Applications Programmer	Writes and maintains programmable code of software applications and operating systems.	Bachelor's Degree or Advanced Diploma (NQF Level 7)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
81	2019-251901	Computers Quality Assurance Analyst	Installs software and hardware and configures operating system software in preparation for testing and conduct testing.	Bachelor's Degree or Advanced Diploma (NQF Level 7)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
82	2019-252301	Computer Network and Systems Engineer	Plans, develops, deploys, tests and optimises network and system services taking responsibility for configuration management and overall operational readiness of network systems, especially environments with multiple operating systems and configurations, and provides troubleshooting and fault finding services for network problems.	Bachelor's Degree or Advanced Diploma (NQF Level 7)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
83	2019-252302	Network Analyst	Researches and analyses network architecture, recommends policies and strategies for designing, planning and coordinating an organisation's network such as the total system environment and architecture. May also perform operational tasks such as monitoring system performance, software and hardware upgrades, backups, support and network maintenance.	Bachelor's Degree or Advanced Diploma (NQF Level 7)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
84	2019-252901	ICT Security Specialist	Establishes, manages and administers an organisation's ICT security policy and procedures to ensure preventive and recovery strategies are in place, and minimise the risk of	Bachelor's Degree or Advanced Diploma (NQF Level 7)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)

Number	OFO-code	Occupation name	Description (OFO)	Minimum Qualification required	Statutory professional body
			internal and external security threats.		
85	2019-263101	Economist	Performs economic research and analysis; develops and applies theories about production and distribution of goods and services, and people's spending and financial behaviour; and provides advice to governments and organisations on subjects relating to economic policies.	Master's Degree (NQF Level 9)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
86	2019-311101	Chemistry Technician	Performs laboratory tests on organic and inorganic chemicals, analyses test data and carries out technical functions in support of chemists or chemical engineers and technologists in a wide variety of areas such as fuels, pharmaceuticals, paints, metals, plastics, textiles, detergents, paper, fertilisers and cosmetics.	Diploma or Advanced Certificate (NQF Level 6)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
87	2019-311203	Town Planning Technician	Provides technical support to town planners by preparing and maintaining plans, documents, charts, photographs, tables, reports, and exhibition material for projects, public meetings and committees related to the controlled use of urban and rural land.	Diploma or Advanced Certificate (NQF Level 6)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
88	2019-311401	Electronic Engineering Technician	Conducts tests of electronic systems, collects and analyses data, and assembles circuitry in support of electronics engineers and engineering technologists.	Diploma or Advanced Certificate (NQF Level 6)	ECSA (Engineering Council of South Africa)
89	2019-311501	Mechanical Engineering Technician	Conducts tests of mechanical systems, collects and analyses data, and assembles and installs mechanical assemblies in support of mechanical engineers and engineering technologists.	Diploma or Advanced Certificate (NQF Level 6)	ECSA (Engineering Council of South Africa)
90	2019-311801	Draughtsperson	Prepares technical drawings, maps and illustrations from sketches, measurements and other data, and copy final drawings and paintings onto printing plates in support of architects, engineers and engineering technologists. Note: the terms drafting technician or drafting officer can be used interchangeably.	Diploma or Advanced Certificate (NQF Level 6)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
91	2019-315401	Air Traffic Controller	Ensures the safe and efficient movement of aircraft in controlled airspace and	National Certificate (NQF Level 4) and Air-traffic	Confirmation in writing from Air Traffic Navigation Systems (ATNS) or South

Number	OFO-code	Occupation name	Description (OFO)	Minimum Qualification required	Statutory professional body
			aerodromes by directing aircraft movements.	qualification not benchmarked to the NQF	African Civil Aviation Authority (SACAA).
92	2019-422201	Inbound Contact Centre Consultant (with first language speaking and translating capabilities in the following languages: German, Swiss, German, Flemish, Greek, Swedish, Danish, Italian, Dutch, Spanish, Mandarin and French)	Provides expert response to complex customer enquiries according to agreed key performance indicators.	National Certificate (NQF Level 4)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
93	2019-422202	Outbound Contact Centre Consultant (with first language speaking and translating capabilities in the following languages: German, Swiss, German, Flemish, Greek, Swedish, Danish, Italian, Dutch, Spanish, Mandarin and French)	Initiates specialised contact with targeted and/or selected customers according to agreed key performance indicators or outcomes.	National Certificate (NQF Level 4)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
94	2019-642701	Air-conditioning and Refrigeration Mechanic	Installs, maintains and repairs piping, ducting and equipment for heating, cooling and ventilation of buildings or vessels.	Intermediate Certificate (NQF Level 3)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
95	2019-652301	Metal Machinist	Sets up and operates machine tools to shape and form metal stock and castings to fine tolerances, using detailed drawings and specifications.	Intermediate Certificate (NQF Level 3)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
96	2019-671202	Millwright	Installs, maintains, troubleshoots and repairs stationary industrial machinery and electromechanical equipment..	National Certificate (NQF Level 4)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
97	2019-671203	Mechatronics Technician	Repairs and maintains integrated industrial systems based on mechanical, electrical, electronic and information technology and advanced technology components.	Intermediate Certificate (NQF Level 3)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)

Number	OFO-code	Occupation name	Description (OFO)	Minimum Qualification required	Statutory professional body
98	2019-671204	Lift Mechanic	Designs, installs, maintains, services and repairs electric and hydraulic passenger and freight lifts, escalators, moving walkways and other lift equipment.	Intermediate Certificate (NQF Level 3)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
99	2019-671206	Electrical Equipment Mechanic	Services and repairs electrical equipment and household appliances.	Intermediate Certificate (NQF Level 3)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
100	2019-671208	Transportation Electrician	Installs, maintains and repairs electrical wiring and electronic components in motorised vehicles.	National Certificate (NQF Level 4)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)
101	2019-672105	Instrument Mechanician (Industrial Instrumentation & Process Control)	Installs, modifies, maintains and repairs electronic instruments and control systems.	Intermediate Certificate (NQF Level 3)	Professional body, council or board recognised by SAQA as contemplated in Regulation 9(5)(a)

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