

MINING QUALIFICATIONS AUTHORITY (MQA)



ANALYSIS OF THE WORKPLACE SKILLS PLAN
AND ANNUAL TRAINING REPORT BOOKLET
FOR 2017

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FOREWORD































The Mining Qualifications Authority (MQA) prides itself in ensuring that the Mining and Minerals Sector (MMS) remains at the cutting edge of skills development. One of the MQA's strategic objectives is to improve skills development planning and decision-making through research in the sector. The MQA intends on contributing to the existing body of skills development knowledge within the MMS by identifying the skills needs of the sector as well as planning, managing and reporting on appropriate responses identified as critical needs in the sector.

The Workplace Skills Plans (WSPs) and Annual Training Reports (ATRs) forms part of the MQA's research agenda and is of critical importance to the SETA's mandate. Through this research, the SETA is able to outline current and future learning and qualifications needs of the sector and develop interventions that address them.

The main purpose of this research report is to provide an analysis of the sector in terms of the geographic location, size, and composition of the organisations that have submitted a WSP-ATR to the MQA during the period 2017. This report further profiles the MMS workforce as well as the training offered during the period under review. It is the result of not only a thorough research process, but also of extensive data analysis of the WSP-ATR submissions as a primary data source.

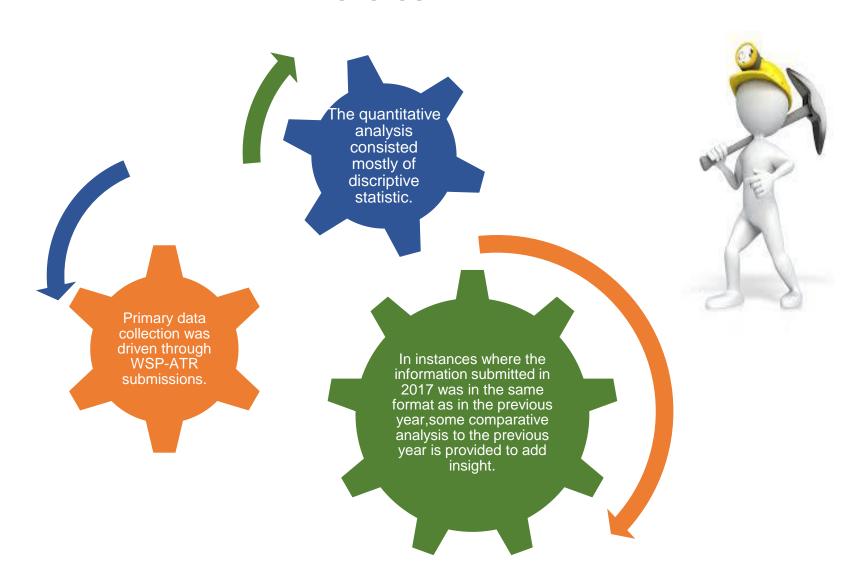
THE NINE SUBSECTORS



Figure 1: The 9 Subsectors of the MMS

The MMS has 9 subsectors and within the subsectors there 44 SIC Codes which are used for the purpose of identification of subsectors that fall under the MMS.

METHODOLOGY



EMPLOYER SUBMISSIONS PROFILE

SUBMISSIONS & APPROVALS

The WSP-ATR submissions provide an insight into the nature, the extent of skills supply and demand in the sector that could inform better decision making around skills planning and interventions going forward.

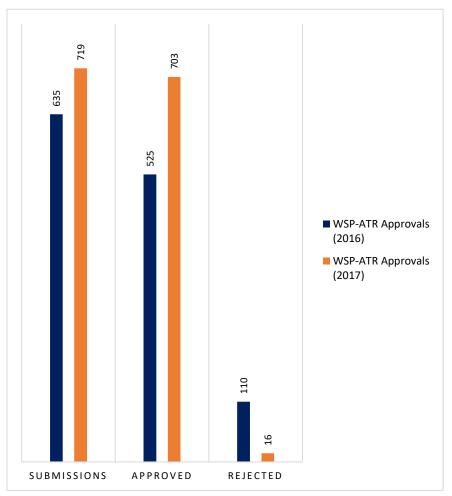


Figure 2: WSP-ATR Submissions (Approvals & rejections)

In 2017, 719 submissions were received, and 703 (97.8%) were approved. The submissions that were rejected were as a result of missing signatures or incomplete WSP-ATR.



SUBMISSIONS BY PROVINCES

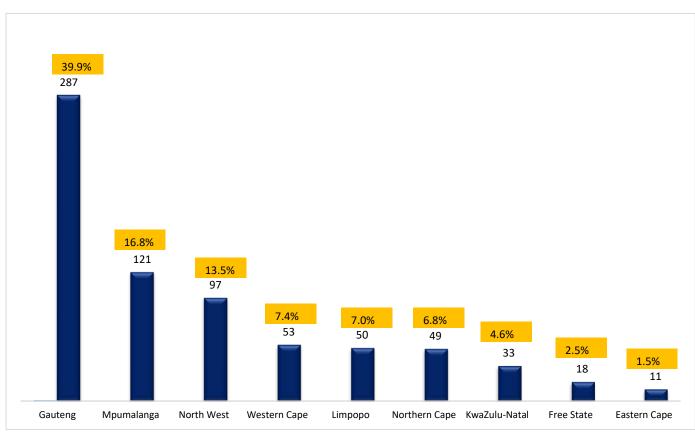
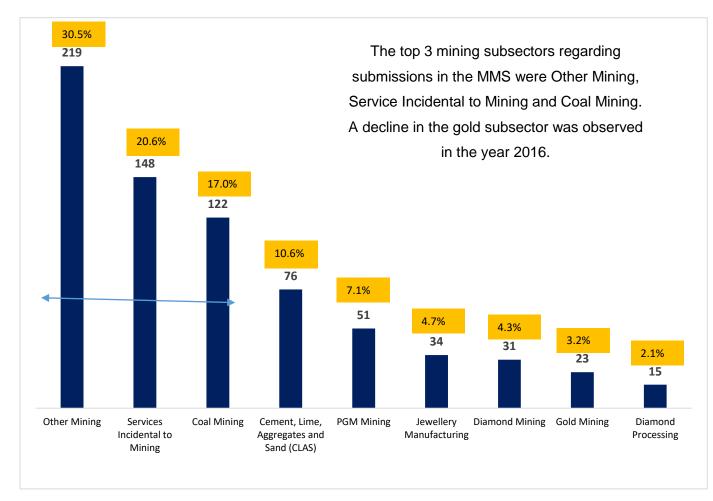


Figure 3: Submissions by provinces

Provinces such as Gauteng, Mpumalanga and the North West had the highest submissions resulting in a majority of approvals (WSP-ATRs in 2017).

The 2017 WSP-ATR analysis by province also revealed a major increase in the submissions for Limpopo and North West as compared to 2016.

SUBMISSIONS BY SUBSECTORS AND COMPANY SIZES



Small companies (283) dominate the sector in terms of WSP/ATR submissions. Large companies (256) are second highest, with medium companies (180) being the least in terms of submissions.

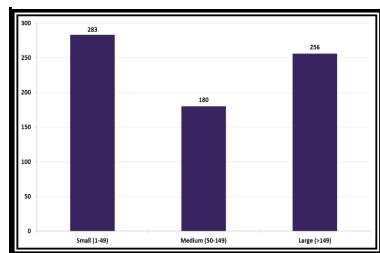


Figure 5: Submissions by Company Sizes

Figure 4: WSP-ATR Submissions by Subsectors

EMPLOYMENT PROFILE

The 2016 WSP-ATR submissions contained a total 424 487 employees, whilst 2017 comprised a total of 534 411.

EMPLOYMENT BY SUBSECTORS

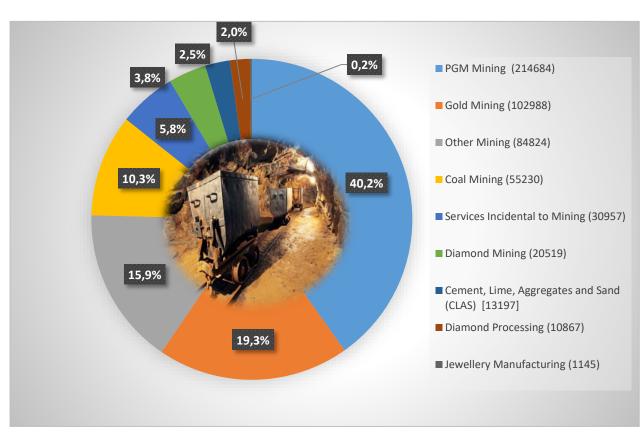


Figure 6: Employment by Subsectors

The PGM Mining sector has the highest percentage (40.2%) of workers in the sector, followed by the Gold Mining subsector (19.3%).

The PGM, Diamond Mining and Diamond Processing subsectors saw an increase in 2017 in the number of employees compared to 2016.

EMPLOYMENT BY PROVINCES

The North West province had the highest number of employees. This is attributed by the fact that the majority of the PGM companies are based there.

The Gauteng province had the second highest number of employees, followed by the limpopo province.



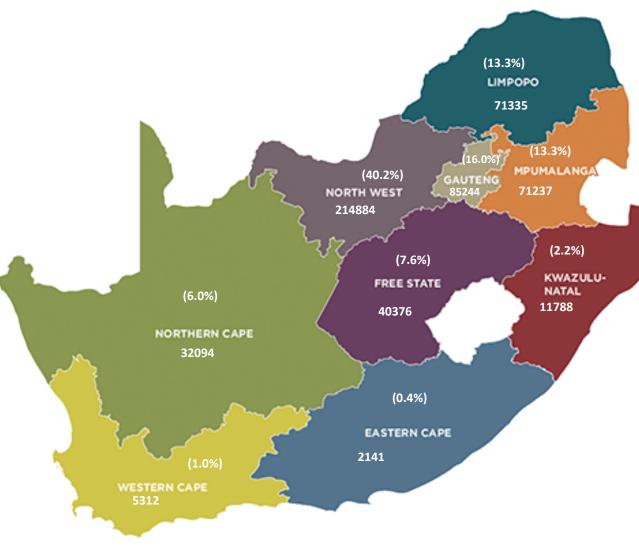
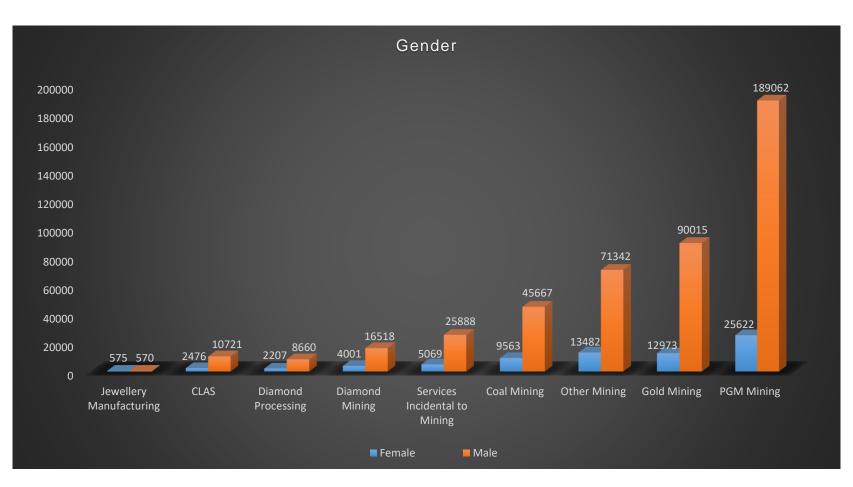


Figure 7: Employment by Provinces

EMPLOYMENT DEMOGRAPHICS

EMPLOYMENT BY GENDER

The statistics in South Africa notes that only 44% of professional posts are held by women in South Africa. Since the beginning of 2000, the percentage of women employed in mining increased from roughly 4% to 14% in 2017.



Females still remain underrepresented, with Gold and PGM Mining being the subsectors with the lowest female employees.

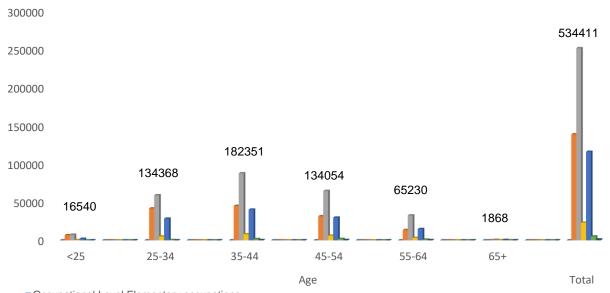
Contrary to this, the Jewellery Manufacturing subsector employs 50.2% of the females within the sector, which is slightly higher than their male counterparts.



Page 8

Figure 8: Employment by Gender

EMPLOYMENT BY AGE



- Occupational Level Elementary occupations
- Occupational Level Unskilled and defined decision makers
- Occupational Level Semi-skilled and discretionary decision makers
- Occupational Level Professionally qualified and experienced specialists and mid-management
- Occupational Level Skilled technical and academically qualified workers, junior management, supervisors, foremen and superintendents
- Occupational Level Senior management
- Occupational Level Top management

The age distribution of employees within the MMS consists of mostly middle-aged adults. The average age of the employees was 41 years, with the youngest employee aged 18.

On the other hand, those above 65 were found to be in more skilled and senior positions due to their years of experience in the sector.

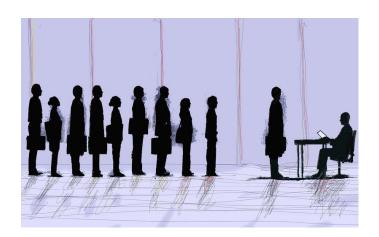


Figure 9: Employment by Age

EMPLOYMENT BY DISABILITY

			DISAB	SI FD	
			Employees without Disabilities	Employees with Disabilities	Total
	Cement, Lime,	Count	13053	144	13197
	Aggregates and Sand (CLAS)	%	98.9%	1.1%	100.0%
	Coal Mining	Count	54813	417	55230
		%	99.2%	.8%	100.0%
S	Diamond Mining	Count	20412	107	20519
U		%	99.5%	.5%	100.0%
B	Diamond	Count	10818	49	10867
E	Processing	%	99.5%	.5%	100.0%
C		Count	102579	409	102988
Т		%	99.6%	.4%	100.0%
0	Jewellery	Count	1130	15	1145
R	Manufacturing	%	98.7%	1.3%	100.0%
	Other Mining	Count	84171	653	84824
		%	99.2%	.8%	100.0%
	PGM Mining	Count	210777	3907	214684
		%	98.2%	1.8%	100.0%
	Services	Count	30803	154	30957
	Incidental to Mining	%	99.5%	.5%	100.0%
Tot	al	Count	528556	5855	534411
		%	98.9%	1.1%	100.0%

The Employment Equity Act, states that at least 3% of an organisation's workforce should be employees with disabilities (Vallie, 2017). The representation of disabled individuals remains low (1.1% - 5855 out of 534411 employees) in the MMS. The diamond processing subsector had the largest number of employees living with a disability in 2016, whilst in 2017 there were less than 1% employees reported as disabled.



Table 1 : Employment by Disability

EMPLOYMENT BY POPULATION GROUPS

According to Stats SA, Africans represent the majority (81%) of the race groups in South Africa (StatsSA, 2017). It is encouraging to note that the majority of the MMS workforce is above the national average as African employees comprise 85.3% employees. Whites on the other hand, came in second (11.3%), whilst Coloureds (2.8%) and Indians (0.6%) were the least represented race groups.

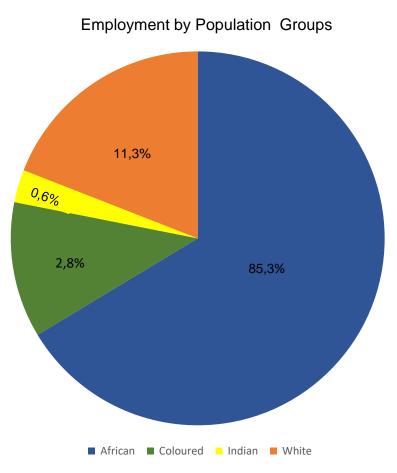


Figure 10: Employment by Population Groups

EMPLOYMENT BY NATIONALITY

	Nationality		
	Non SA	SA	
Subsector			Total
Cement, Lime, Aggregates and Sand (CLAS)	204	12993	13197
	1.50%	98.50%	100.00%
Coal Mining	1164	54066	55230
Coal Willing	2.10%	97.90%	100.00%
Diamond Mining	106	20413	20519
Diamond Willing	0.50%	99.50%	100.00%
Diamond Processing	115	10752	10867
Diamond Processing	1.10%	98.90%	100.00%
Gold Mining	24823	78165	102988
dola Milling	24.10%	75.90%	100.00%
Lowellow, Manufacturing	36	1109	1145
Jewellery Manufacturing	3.10%	96.90%	100.00%
Other Mining	Non SA 204 12993 13197 1.50% 98.50% 100.009 1164 54066 55230 2.10% 97.90% 106 20413 20519 0.50% 99.50% 10752 10867 1.10% 98.90% 100.009 24823 78165 102988 24.10% 75.90% 100.009 36 1109 1145 3.10% 96.90% 100.009 3157 81667 84824 3.70% 96.30% 100.009 3157 81667 84824 3.70% 96.30% 100.009 3157 81667 84824 3.70% 96.30% 100.009 2845 28112 30957 9.20% 90.80% 100.009 63145 471266 534411	84824	
Other Mining	3.70%	96.30%	100.00%
DCM Mining	30695	183989	214684
PGM Mining	14.30%	85.70%	100.00%
Sandans Incidental to Mining	2845	28112	30957
Services Incidental to Mining	9.20%	90.80%	100.00%
	63145	471266	534411
	11.80%	88.20%	100.00%

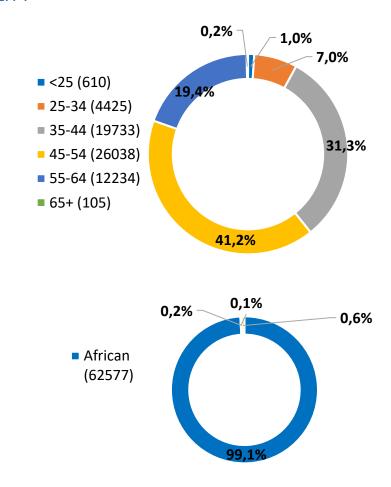


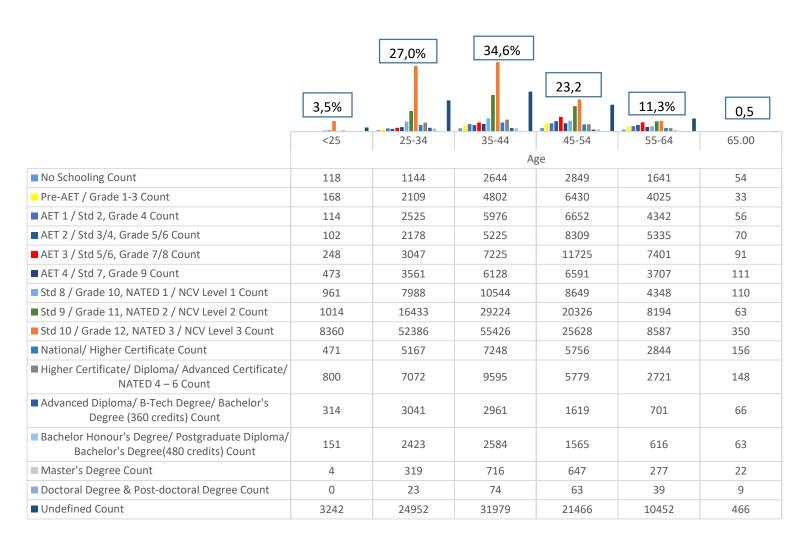
Table 2 : Non South Africans by Employment Status

There was a minor decrease of foreign nationals in comparison to South African employees in 2017 (11.8% vs. 12.7% in 2016). The Gold subsector employs the largest number of non-South African citizens.

The composition of non-South African citizens is made up of an older workforce with the majority aged between 45-54 years and mostly black males (99.1%). However, these employees occupy low skilled occupations which are neither scarce nor critical skills.

QUALIFICATION & AGE

The opportunities to advance in the mining industry becomes better if an employee has a relevant qualification related to mining and the job specification.



The employees, who are mostly young and possess some form of formal education are employed in either unskilled or semi-skilled occupations.

Some employees possess qualifications, but not relevant to the sector. Those that are older and close to retirement (55+) are mostly employed in senior positions and some possessing no form of formal education.



Figure 11: Employees by Qualification & Age

SCARCE & CRITICAL SKILLS OCCUPATIONS

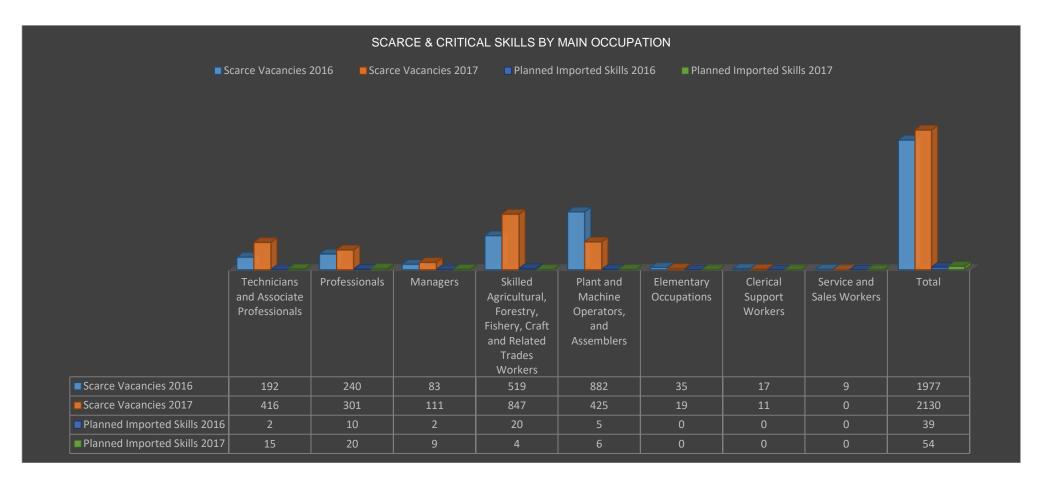
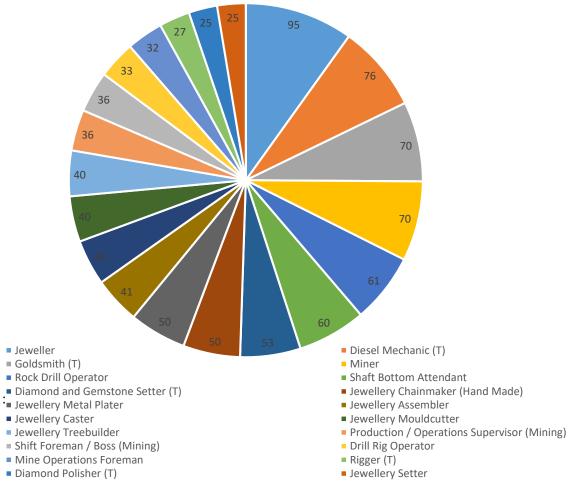


Figure 12: Scarce & Critical Skills by main Occupation

The rise in the demand for high-skilled employees could signify the reliance of modern skills involving technological innovations within the MMS, an increase in the skills planned and to import more technicians, professionals and managers.

MAIN OCCUPATIONS AND PLANNED IMPORTS

Top 20 Scarce Skills by Main Occupations



The top 4 scarce and critical occupations according to the employers are Jewellers, Diesel Mechanics and equally Goldsmiths and Miners.



Figure 13: Top 20 Scarce Skills by Main Occupation

SUBSECTORS

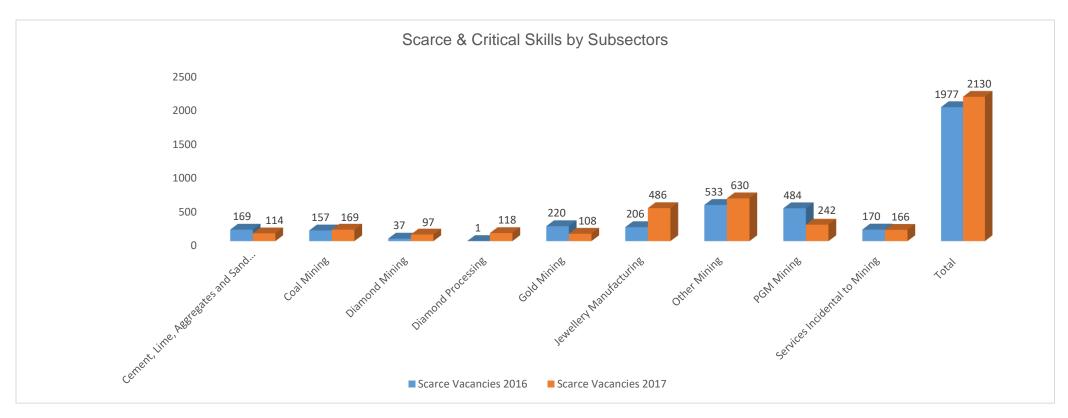


Figure 14: Scarce & Critical Skills by Subsectors

The largest number of scarce vacancies are found in the PGM and Jewellery Manufacturing subsectors. These subsectors experienced an upsurge of scarce vacancies in 2017 compared to 2016. The Jewellery Manufacturing reported 486 scarce vacancies in 2017 compared to 206 in 2016, whilst Other Mining reported 630 in 2017 vs. 533 in 2016.

SKILLS SCARCITY

SKILLS SCARCITY BY PROVINCES

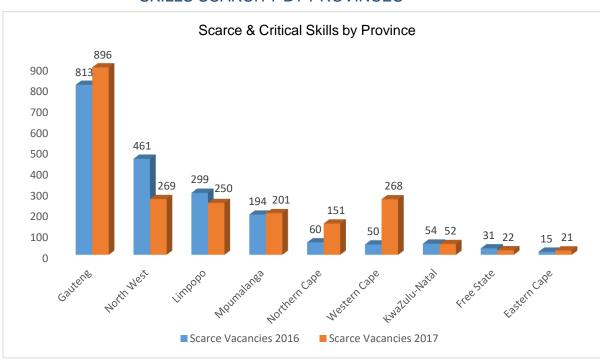
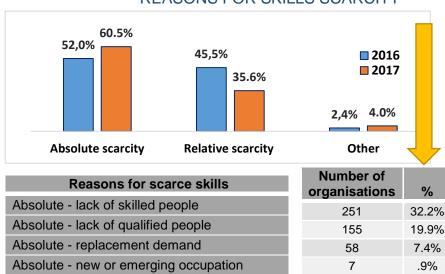


Figure 15: Scarce & Critical Vacancies by Provinces

REASONS FOR SKILLS SCARCITY



Relative scarce skill - geographic location

Relative scarce skill - employment equity

Relative scarce skill - industry attractiveness

Relative scarce skill - replacement demand

Relative scarce skill - remuneration

Other

The main reasons attached to the increase of skills scarcity is attributed to absolute and relative scarcity. Absolute scarcity relates to the suitably skilled people but are not available in the labour market, whilst relative scarcity relates to suitably skilled people but do not meet other employment criteria. The Western Cape had the highest number of scarce vacancies - five times higher (268 in 2017 vs. 50 in 2016), this was followed by the Northern Cape and Gauteng provinces. Although the Western Cape and Northern Cape posted the highest number of scarce vacancies, none of the companies intended on importing skills.

87

67

54

43

26

31

11.2%

8.6%

6.9%

5.5%

3.3%

4.0%

TRAINING IMPLEMENTED

TRAINING PROVIDED BY SUBSECTORS

SUBSECTOR	2015	2016	2017
Gold Mining	18.4%	17.7%	4.2%
Other Mining	26.0%	32.3%	28.5%
Coal Mining	22.3%	21.8%	18.5%
CLAS	2.9%	2.5%	1.5%
Diamond Mining	2.4%	1.8%	8.3%
Diamond Processing	0.1%	0.1%	6.9%
PGM Mining	22.7%	20.2%	26.5%
Services Incidental to Mining	5.1%	3.6%	5.5%
★ Š⑤ ⑤ ⑤ Jewellery★ ≼ ¾ Manufacturing	0.1%	0.1%	0.1%
TOTAL	552 973	757 974	653 032

Figure 16: Training by Subsectors

Training implemented in the sector fluctuated on a year to year basis. However, during 2015-2017 there has been a decline in the Gold Mining, Other Mining and Coal Mining subsectors and an increase in the Diamond Mining, Diamond Processing, PGM Mining, Services Incidental to Mining and Jewellery Manufacturing. Gold Mining posted the lowest training provided in 2017 out of all other subsectors. The decline in this subsector could suggest that some companies would underinvest in training for the purpose of sustaining their companies.



TRAINING BY PROVINCES

Province	Limpopo	Mpumalanga	North West	Western Cape	Free State	KwaZulu- Natal	Gauteng	Eastern Cape	Northern Cape	Total
2015	1.1%	25.8%	22.0%	0.5%	3.7%	18.2%	9.9%	3.6%	15.2%	100% (552973)
2016	0.9%	23.9%	21.7%	0.2%	3.1%	16.7%	15.2%	5.8%	12.5%	100% (757974)
2017	15.7%	32.7%	26.9%	1.0%	3.8%	3.6%	4.8%	0.2%	11.0%	100% (653032)

Figure 17: Training by Province

The Limpopo province had an increase of 14.6% since 2015, Following Limpopo's increase was Mpumalanga whose training provision has been increasing since 2015. The Gauteng province had a low training contribution to employees compared to the year 2016.

TRAINING PROVIDED BY GENDER

				Gender	
		Fem	of Number of Train Interprovided 18.80% 84.60 9563 1021 17.30% 84.70 4001 4581 19.50% 84.10 2207 3801 20.30% 84.90 12973 2498 12.60% 90.50 575 172 50.20% 48.70 13482 1601 15.90% 86.00 25622 1515 11.90% 87.70 5069 3164 16.40% 87.50 75968 5629	· ·	Tale
Subsectors		Number of Training Interventions Provided		Number of Training Interventions Provided	Number of Employees
Cement, Lime, Aggregates and Sand (CLAS)	Count	1539	2476	8480	10721
Cement, Lime, Aggregates and Sand (CLAS)	%	15.40%	18.80%	84.60%	81.20%
Coal Mining	Count	18458	9563	102117	45667
Coal Willing	%	15.30%	17.30%	84.70%	82.70%
Diamond Mining	Count	8673	4001	45818	16518
Diamond Willing	%	15.90%	19.50%	84.10%	80.50%
Diamond Processing	Count	6744	2207	38014	8660
Diamond Frocessing	%	15.10%	20.30%	84.90%	79.70%
Gold Mining	Count	2619	12973	24982	90015
Gold Milling	%	9.50%	12.60%	90.50%	87.40%
Jewellery Manufacturing	Count	181	575	172	570
Jeweilery Manufacturing	%	51.30%	50.20%	48.70%	49.80%
Other Mining	Count	26047	13482	160149	71342
Other Mining	%	14.00%	15.90%	86.00%	84.10%
DCM Mining	Count	21336	25622	151545	189062
PGM Mining	%	12.30%	11.90%	87.70%	88.10%
Services Incidental to Mining	Count	4518	5069	31640	25888
Services incluental to willing	%	12.50%	16.40%	87.50%	83.60%
Total	Count	90115	75968	562917	458443
Total	%	13.80%	14.20%	86.20%	85.80%

The number of females trained is still low and slightly below the percentage representation in the sector (13.8% vs. 14.2% in 2017) making males the highest recipients of training.



Table 3: Training interventions provided by gender

TRAINING PROVIDED BY DISABILITY

		Dis	sability	
Subsector		With no Disabilities	With Disabilities	Total
Cement, Lime, Aggregates and Sand (CLAS)	Count	9944	75	10019
	%	99.3%	.7%	100.0%
Coal Mining	Count	120181	394	120575
	%	99.7%	.3%	100.0%
Diamond Mining	Count	54333	158	54491
	%	99.7%	.3%	100.0%
Diamond Processing	Count	44690	68	44758
	%	99.8%	.2%	100.0%
Gold Mining	Count	26441	1160	27601
	%	95.8%	4.2%	100.0%
Jewellery Manufacturing	Count	343	10	353
	%	97.2%	2.8%	100.0%
Other Mining	Count	185323	873	186196
	%	99.5%	.5%	100.0%
PGM Mining	Count	169484	3397	172881
	%	98.0%	2.0%	100.0%
Services Incidental to Mining	Count	36078	80	36158
	%	99.8%	.2%	100.0%
Total	Count	646817	6215	653032
	%	99.0%	1.0%	100.0%

Table 4: Training by disability status

Training provided to disabled individuals is in line with the population's representation of 1.1% which is below the Employment Equity Act threshold (3%).



TRAINING POPULATION GROUPS

The majority of trained employees are African, followed by White, Coloured and Indian employees being the least trained.



Figure 18: Training by Population

TRAINING INTERVENTIONS PLANNED

SUBSECTORS (2017)

		2017 (Training Planned)	2017 (Training Conducted)	Difference
	Diamond Processing	778	44758	43980
	Diamond Mining	14278	54491	40213
S	Coal Mining	90660	120575	29915
U B	PGM Mining	150415	172881	22466
S	Other Mining	1177654	186196	-991458
E C	Gold Mining	127173	27601	-99572
T O R	Cement, Lime, Aggregates and Sand (CLAS)	19344	10019	-9325
	Services Incidental to Mining	38576	36158	-2418
	Jewellery Manufacturing	394	353	-41
	Total	619272	653032	33760

Table 5: Training by Subsector

The top 4 subsectors that had the highest number of training planned were Diamond Processing, Diamond Mining, Coal Mining and PGM Mining. Diamond Mining, Diamond Processing, Coal Mining and PGM Mining were the subsectors that overachieved in training. The subsectors with the least implemented planned training were the Gold Mining and CLAS subsectors.



TRAINING BY MAIN OCCUPATIONS (2015-2017)

The investment in the planned training that is centered on scarce and critical occupations, i.e. Managers, Professionals and Technicians is crucial for the sector as these occupations have been established according to research, essential for driving and sustaining the sector.

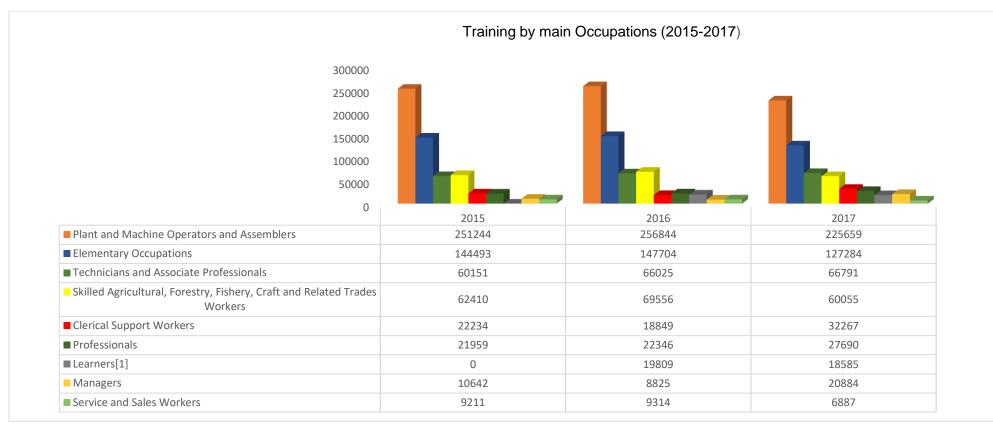


Table 6: Training by main Occupations (2015-2017)

A total of 586 102 training interventions were reported for 2017 but this is a 5% decrease from 2016's 619 272.

TRAINING INTERVENTIONS FOR UNEMPLOYED BY SUBSECTORS & GENDER

Subsectors	Total Training	М	ale	Fe	male	Total Training	Male		Female	
	planned (2016)	N	%	N	%	done (2017)	N	%	N	%
PGM Mining	8421	4072	29.1%	4349	29.8%	13849	6633	32.1%	7216	33.2%
Coal Mining	7801	3982	28.4%	3819	26.2%	8552	4199	20.3%	4353	20.0%
Other Mining	6357	2963	21.2%	3394	23.3%	10173	5033	24.4%	5140	23.6%
Diamond Mining	3533	1728	12.4%	1805	12.4%	3546	1655	8.0%	1891	8.7%
Gold Mining	1248	637	4.6%	611	4.2%	2613	1337	6.5%	1276	5.9%
Cement, Lime, Aggregates and Sand (CLAS)	469	238	1.7%	231	1.6%	1853	820	4.0%	1033	4.7%
Services Incidental to Mining	410	194	1.4%	216	1.5%	986	568	2.8%	418	1.9%
Jewellery Manufacturing	323	157	1.1%	166	1.1%	718	346	1.7%	372	1.7%
Diamond Processing	3	3	0.0%	0	0.0%	120	59	0.3%	62	0.3%
Total	28565	13974	100%	14591	100%	42411	20651	100%	21761	100%

Table 7: Training for Unemployed by Subsector & Gender

The majority of the subsectors upskilled (80%) females in the sector. In 2016, all subsectors, except Gold Ming and Services Incidental to Mining had most of their planned training allocated to females than males.

TRAINING PLANNED FOR PEOPLE WITH DISABILITY IN 2018



Figure 5: Training for the Disable

In 2017, there were 13 864 training interventions planned at developing disabled people, 44.8% (6215) of that training was implemented. There was a decrease in the number of planned training for 2018 but an increase is only seen for the CLAS, Gold Mining and Diamond Processing Mining subsector.

TRAINING PLANNED VS. TRAINING DONE FOR UNEMPLOYED COMMUNITY MEMBERS

During the year 2016, the PGM, Coal and Other Mining subsectors had the highest targeted planned training totals. However in 2017 where all of these subsectors planned on decreasing the number of training to be provided to community members. The number of training interventions done in 2016 for unemployed community members tends to be higher than the reported training interventions in 2017.

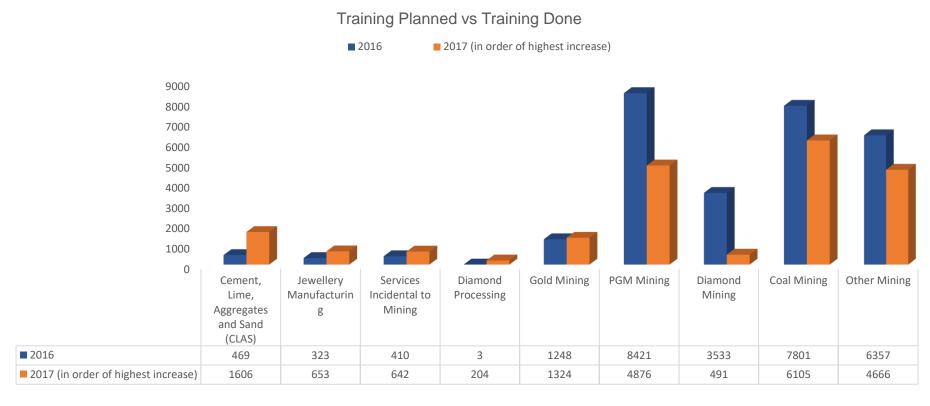


Figure 20: Training Planned vs Training Planned

TRAINING PLANNED FOR 2018

The analysis of training by subsector indicate that Services Incidental to Mining had the highest planned training for 2018 (192 655). Its planned training for 2018 is 5 times higher than what it achieved in 2017. The PGM and Other Mining were the second and third highest subsectors with the most planned training, but below what they had planned and achieved the previous year. A similar trend can be seen for Diamond Processing, Diamond Mining and Coal Mining, who implemented more training than had planned for 2017, but plans on training less people in 2018.



Figure 21: Training Planned for 2018

CONCLUSIONS

The increase of WSP-ATR submissions (719 in 2017 vs. 635 in 2016), is the highest in the MQA's submission history. The existence of the few non-approvals is due to missing signatures or incomplete WSP-ATR. The Gold and PGM subsector have high levels of employees occupying unskilled and semi-skilled occupations. Diamond Mining and Diamond Processing were the two subsectors with more skilled employees.

Male employees still dominate the sector, with only 14.2% of females employed in the MMS found in semi and unskilled occupations. Training by gender revealed that male employees continue to receive more training in large numbers as compared to females.

The Gold, Other mining, Coal and CLAS subsectors reported a decrease in the training provided within their organisations. The employment of people living with a disability across all subsectors increased, except in the Coal Mining subsector.

Skills development in the sector has driven an increase in the investment of planned training related to scarce and critical occupations. Job Specific Development Programmes and the MQA learnerships are there to address the issue of scarce skills within the MMS.

Training interventions implemented for unemployed tended to be higher than any other training provided. 80% of the subsectors reported to have trained more females than males in the financial year 2017/2018. The planned training for 2018 is 93% below what was planned in 2017.





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