TAHAP KESEDARAN KESELAMATAN PEKERJA YANG TERDEDAH TERHADAP BUNYI BISING DALAM INDUSTRI PEMBUATAN: SATU KAJIAN KES DI SEBUAH KILANG (FIRMA YANG KOMPETEN) MEMBUAT TANGKI PENGANDUNG TEKANAN

WAN HILEMI BIN WAN HUSSEIN

SARJANA
UNIVERSITI UTARA MALAYSIA
2018

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Universiti Utara Malaysia

PERAKUAN KERJA KERTAS PENYELIDIKAN
(Certification of Research Paper)

Saya, mengaku bertandatangan, memperakukan bahawa
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WAN HILEMI BIN WAN HUSSEIN (819449)

Calon untuk Ijazah Sarjana
(Candidate for the degree of) **MASTER OF SCIENCE (OCCUPATIONAL SAFETY & HEALTH MANAGEMENT)**

Telah mengemukakan kertas projek yang bertajuk
(has presented his/her project paper of the following title)

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Seperti yang tercatat di muka surat tajuk dan kulit kertas projek
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Bahawa kertas projek tersebut boleh diterima dari segi bentuk serta kandungan dan meliputi bidang ilmu dengan memuaskan.
(that the project paper acceptable in the form and content and that a satisfactory knowledge of the field is covered by the project paper).

NamaPenyelia : **NORIZAN BINTI HAJI AZIZAN**
(Name of Supervisor)

Tandatangan : _____
(Signature)

Tarikh : **16 OGOS 2018**
(Date)

KEBENARAN MERUJUK

Kertas projek penyelidikan ini dikemukakan sebagai memenuhi keperluan bagi pengijazahan program sarjana Universiti Utara Malaysia, Sintok, Kedah Darul Aman. Saya bersetuju membenarkan pihak perpustakaan UUM mempamerkan sebagai bahan rujukan umum. Saya juga bersetuju bahawa sebarang bentuk salinan sama ada secara keseluruhan atau sebahagian daripada kertas projek ini untuk tujuan akademik adalah dibolehkan dengan kebenaran penyelia projek iaitu Dr. Norizan Binti Hj Azizan. Sebarang bentuk salinan dan cetakan bagi tujuan komersil adalah dilarang sama sekali tanpa kebenaran bertulis daripada penyelidik. Pernyataan rujukan kepada penulis dan UUM perlulah dinyatakan bagi sebarang bentuk rujukan ke atas kertas projek ini

Kebenaran untuk menyalin atau menggunakan kertas projek ini sama ada keseluruhan atau sebahagian daripadanya hendaklah dipohon melalui:

Dekan Pusat Pengajian Pasca Siswazah

Othman Yeop Abdullah

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Abstrak

Kesedaran terhadap bunyi bising adalah faktor penting dalam mengurangkan kehilangan pendengaran akibat bunyi bising (KPABB) di tempat kerja di sebuah firma yang kompeten seperti Syarikat DBI. Pekerja perlu mematuhi program pemuliharaan pendengaran dalam meningkatkan tahap kesedaran terhadap bunyi bising semasa berada di tempat kerja yang mempunyai paras bertindak lebih dari 85dB(A). Kajian ini dijalankan bagi mengetahui tahap kesedaran terhadap bunyi bising di Syarikat DBI dan mengetahui perbezaan demografi responden berhubungkait dengan tahap kesedaran bunyi bising. Kajian in menggunakan soal selidik di salah satu syarikat Firma Yang Kompeten melibatkan seramai 87 orang responden di Syarikat DBI. Menurut hasil kajian tahap kesedaran KPABB adalah di tahap sederhana dan wujudnya perbezaan yang signifikan di antara umur, bangsa, tempoh pengalaman kerja, faktor taraf perkahwinan, dan tahap pengajian terhadap kesedaran bunyi bising. Manakala tiada perhubungan yang signifikan di antara kesedaran bunyi bising dengan faktor jantina dan sejarah seseorang pernah mengalami kejadian berkaitan bunyi bising

Kata kunci: kesedaran terhadap bunyi bising, kehilangan pendengaran akibat bising, KPABB, firma yang kompeten,

Abstract

Awareness of noise is an important factor in reducing noise indeced hearing loss (NIHL) due to noise at work in a competent firm such as DBI Company. Employees are required to comply with the hearing conservation program in raising the level of awareness of noise during work temptation that has a level of acting over 85dB (A). This study was conducted to find out the level of awareness of noise in DBI Company and to know the differences of respondents' demographic with the level of noise awareness. An in-house study on one of the Competent Firms companies involves 87 respondents at the DBI Company. According to the results of the study, the level of awareness of KPABB is at moderate level and there is a significant difference between age, race, working experience, marital status, and level of study on noise awareness. While there is no significant relationship between noise awareness and gender and the history of a person having experienced noise-related events

Keywords: noise safety awareness, noise induced hearing loss, NIHL, competent firm

Penghargaan

Alhamdulillah, bersyukur saya ke hadrat Ilahi kerana limpah kurnia-Nya maka kertas projek ini dapat disempurnakan dengan jayanya. Ucapan ribuan terima kasih khasnya kepada Dr. Norizan Binti Hj Azizan yang telah sudi menjadi penyelia bagi kertas projek ini dan tidak lupa kepada En Syazwan Syah Bin Zulkifly dan En Ahmad Fauzi Bin Awang (Ketua Seksyen Bahagian Keselamatan Industri) yang membantu saya sepanjang menjalankan kajian ini. Segala nasihat, dorongan dan motivasi akan saya jadikan panduan di masa akan datang.

Saya juga ingin merakamkan ucapan terima kasih kepada kakitangan-kakitangan Syarikat DBI dan Pegawai Keselamatan dan Kesihatan yang terlibat dalam membantu saya menjalankan kajian ini yang berkaitan dengan tahap kesedaran pekerja terhadap bunyi bising dan keselamatan pendengaran di Syarikat DBI.

Di kesempatan ini, saya ingin mengucapkan terima kasih yang tidak terhingga kepada semua pensyarah yang telah banyak berjasa membimbing, mendidik dan memberi tunjuk ajar sepanjang pengajian sarjana saya di Universiti Utara Malaysia.

Terima kasih juga kepada keluarga dan rakan-rakan MOSHRM yang banyak memberikan semangat dan sokongan moral sepanjang tempoh pengajian dan perlaksanaan kertas projek ini.

Sekian, terima kasih.

KANDUNGAN

SENARAI RAJAH

SENARAI JADUAL

SENARAI SINGKATAN

AKJ	Akta Kilang dan Jentera 1967
FYK	Firma Yang Kompeten
HCP	*Hearing Conservation Programme*
JKKP	Jabatan Keselamatan dan Kesihatan Pekerjaan
KPABB	Kehilangan Pendengaran Akibat Bunyi Bising
PV	*Pressure Vessel*
SPSS	*Statistical Package for Social Scince*

BAB 1
PENGENALAN

1.1 Pengenalan

Komunikasi yang berkesan di tempat kerja amat penting dalam menjalani aktiviti kerja dan ia berkait rapat dengan sistem pendengaran seseorang. Oleh itu, telinga manusia merupakan alat pendengaran manusia yang utama dan jika pancaindera ini terjejas semasa bekerja di tempat bising maka seseorang itu boleh dikatakan mengalami kehilangan pendengaran akibat bunyi bising (KPABB). KPABB ini merupakan salah satu penyakit pekerjaan yang serius di Malaysia dan merupakan penyakit pekerjaan yang sering dialami dan telah diakui sejak revolusi industri di Malaysia sejak awal 1963. Terdapat banyak sebab kehilangan pendengaran ini termasuklah kehilangan pendengaran disebabkan faktor umur, jangkitan penyakit dan salah satunya adalah kehilangan pendengaran akibat bunyi bising. Dalam kajian ini, KPABB yang akan dikaji adalah KPABB akibat aktiviti semasa bekerja di tempat bising.

Status KPABB ini juga disokong oleh statistik yang dikeluarkan oleh pihak SOCSO pada tahun 2014 di mana KPABB mencatatkan jumlah yang paling tinggi di kalangan pekerja Malaysia di sektor pembuatan berbanding sektor-sektor lain. Sektor pembuatan merupakan salah satu sektor yang menjadi penyumbang utama dalam pertumbuhan ekonomi Malaysia, dan pada April 2018 nilai hasil jualan Malaysia di dalam sektor pembuatan mencapai sehingga 8.2%. Salah satu aktiviti pembuatan di Malaysia adalah sektor pembuatan fabrikasai besi dalam mengeluarkan pengandung tekanan (pressure vessel, PV) sebagai produk pengeluaran. Dalam konteks

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LAMPIRAN

LAMPIRAN

Lampiran 1: Hasil keputusan analisis menggunakan perisian SPSS ver 20

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Tahap Kesedaran * Jantina Crosstabulation

Count

		Jantina		Total
		Lelaki	Perempuan	
Tahap Kesedaran	Rendah	9	1	10
	Sederhana	49	7	56
	Tinggi	21	0	21
Total		79	8	87


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Tahap Kesedaran * Taraf Perkahwinan anda Crosstabulation

Count

		Taraf Perkahwinan anda			Total
		Bujang	Berkahwin	Bercerai/Balu	
Tahap Kesedaran	Rendah	1	9	0	10
	Sederhana	19	36	1	56
	Tinggi	13	8	0	21
Total		33	53	1	87

```
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Tahap Kesedaran * Taraf Pendidikan	87	100.0%	0	0.0%	87	100.0%

Tahap Kesedaran * Taraf Pendidikan Crosstabulation

Count

		Taraf Pendidikan			
		Sekolah rendah	LCE/SRP/PMR	MCE/SPM/SPMV	HSC/STPM
Tahap Kesedaran	Rendah	0	2	1	4
	Sederhana	4	4	20	7
	Tinggi	0	4	14	0
Total		4	10	35	11

Tahap Kesedaran * Taraf Pendidikan Crosstabulation

Count

		Taraf Pendidikan	Total
		Lain-lain nyatakan	
Tahap Kesedaran	Rendah	3	10
	Sederhana	21	56
	Tinggi	3	21
Total		27	87

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Tahap Kesedaran * Bangsa	87	100.0%	0	0.0%	87	100.0%

Tahap Kesedaran * Bangsa Crosstabulation

Count

		Bangsa				Total
		Melayu	Cina	India	Lain-lain, nyatakan	
Tahap Kesedaran	Rendah	3	1	0	6	10
	Sederhana	34	8	3	11	56
	Tinggi	21	0	0	0	21
Total		58	9	3	17	87

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Tahap Kesedaran * Umur	87	100.0%	0	0.0%	87	100.0%

Tahap Kesedaran * Umur Crosstabulation

Count

		Umur			
		kurang dari 30 tahun	antara 31 hingga 40 tahun	antara 41 hingga 50 tahun	antara 51 hingga 60 tahun
Tahap Kesedaran	Rendah	5	4	0	1
	Sederhana	20	23	12	1
	Tinggi	1	10	5	5
Total		26	37	17	7

Tahap Kesedaran * Umur Crosstabulation

Count

		Total
Tahap Kesedaran	Rendah	10
	Sederhana	56
	Tinggi	21
Total		87

```
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	N	Percent	N	Percent	N	Percent

Tahap Kesedaran * Tempoh Kerja	87	100.0%	0	0.0%	87	100.0%

Tahap Kesedaran * Tempoh Kerja Crosstabulation

Count

		Tempoh Kerja			
		kurang dari 2 tahun	antara 3 hingga 6 tahun	antara 7 hingga 10 tahun	lebih dari 10 tahun
Tahap Kesedaran	Rendah	5	3	1	1
	Sederhana	18	25	7	6
	Tinggi	0	20	1	0
Total		23	48	9	7

Tahap Kesedaran * Tempoh Kerja Crosstabulation

Count

		Total
Tahap Kesedaran	Rendah	10
	Sederhana	56
	Tinggi	21
Total		87

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	N	Percent	N	Percent	N	Percent

Tahap Kesedaran * Bil kemalangan Bising	87	100.0%	0	0.0%	87	100.0%

Tahap Kesedaran * Bil kemalangan Bising Crosstabulation

Count

		Bil kemalangan Bising			Total
		tak pernah	jarang-jarang	kerap kali iaitu lebih 2 kali sebulan	
Tahap Kesedaran	Rendah	10	0	0	10
	Sederhana	43	12	1	56
	Tinggi	14	7	0	21
Total		67	19	1	87

Notes

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Missing Value Handling	Definition of Missing	For each dependent variable in a table, user-defined missing values for the dependent and all grouping variables are treated as missing.
	Cases Used	Cases used for each table have no missing values in any independent variable, and not all dependent variables have missing values.
Syntax		MEANS TABLES=Jantina TPerkahwinan TPendidikan Bangsa Umur Perkhidmatan Kemalangan BY Kesedaran_Bising /CELLS MEAN COUNT STDDEV GMEDIAN MEDIAN.
Resources	Processor Time	00:00:00.05
	Elapsed Time	00:00:00.05

[DataSet1] C:\Users\W Helmi\Documents\RM DR FAIZAL\HILEMI PAPER\STAT\Untitled4-070818.sav

MEANS TABLES=Kesedaran_Bising BY Jantina TPerkahwinan TPendidikan Bangsa Umur Perkhidmatan Kemalangan

/CELLS MEAN COUNT STDDEV GMEDIAN MEDIAN.

Means

Notes

Output Created		07-AUG-2018 18:49:47
Comments		
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	N of Rows in Working Data File	87

Missing Value Handling	Definition of Missing	For each dependent variable in a table, user-defined missing values for the dependent and all grouping variables are treated as missing.
	Cases Used	Cases used for each table have no missing values in any independent variable, and not all dependent variables have missing values.
Syntax		MEANS TABLES=Kesedaran_Bising BY Jantina TPerkahwinan TPendidikan Bangsa Umur Perkhidmatan Kemalangan /CELLS MEAN COUNT STDDEV GMEDIAN MEDIAN.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.03

[DataSet1] C:\Users\W Helmi\Documents\RM DR FAIZAL\HILEMI PAPER\STAT\Untitled4-070818.sav

Case Processing Summary

	Cases

	Included		Excluded		Total	
	N	Percent	N	Percent	N	Percent
Kesedaran_Bising * Jantina	87	100.0%	0	0.0%	87	100.0%
Kesedaran_Bising * Taraf Perkahwinan anda	87	100.0%	0	0.0%	87	100.0%
Kesedaran_Bising * Taraf Pendidikan	87	100.0%	0	0.0%	87	100.0%
Kesedaran_Bising * Bangsa	87	100.0%	0	0.0%	87	100.0%
Kesedaran_Bising * Umur	87	100.0%	0	0.0%	87	100.0%
Kesedaran_Bising * Tempoh Kerja	87	100.0%	0	0.0%	87	100.0%
Kesedaran_Bising * Bil kemalangan Bising	87	100.0%	0	0.0%	87	100.0%

Kesedaran_Bising * Jantina

Kesedaran_Bising

Jantina	Mean	N	Std. Deviation	Grouped Median	Median
Lelaki	3.1437	79	.73504	2.8714	2.8500
Perempuan	2.9750	8	.46980	2.9250	2.9250
Total	3.1282	87	.71442	2.8813	2.9000

Kesedaran_Bising * Taraf Perkahwinan anda

Kesedaran_Bising

Taraf Perkahwinan anda	Mean	N	Std. Deviation	Grouped Median	Median
Bujang	3.5212	33	.61594	3.4917	3.5000
Berkahwin	2.8868	53	.67276	2.7000	2.7000
Bercerai/Balu	2.9500	1	.	2.9500	2.9500
Total	3.1282	87	.71442	2.8813	2.9000

Kesedaran_Bising * Taraf Pendidikan

Kesedaran_Bising

Taraf Pendidikan	Mean	N	Std. Deviation	Grouped Median	Median
Sekolah rendah	3.0625	4	.33260	2.9833	3.0750
LCE/SRP/PMR	3.0650	10	.76994	2.7333	2.7250
MCE/SPM/SPMV	3.4786	35	.75569	3.4333	3.4500
HSC/STPM	2.4955	11	.30287	2.5000	2.5000
Lain-lain nyatakan	2.9648	27	.56887	2.8600	2.8500
Total	3.1282	87	.71442	2.8813	2.9000

Kesedaran_Bising * Bangsa

Kesedaran_Bising

Bangsa	Mean	N	Std. Deviation	Grouped Median	Median
Melayu	3.3767	58	.72070	3.3625	3.3500
Cina	2.6444	9	.22562	2.6000	2.6000

India	2.9333	3	.49329	2.7000	2.7000
Lain-lain, nyatakan	2.5706	17	.37958	2.6250	2.6000
Total	3.1282	87	.71442	2.8813	2.9000

Kesedaran_Bising * Umur

Kesedaran_Bising

Umur	Mean	N	Std. Deviation	Grouped Median	Median
kurang dari 30 tahun	2.8538	26	.48289	2.8300	2.8500
antara 31 hingga 40 tahun	3.1108	37	.73835	2.8167	2.8000
antara 41 hingga 50 tahun	3.2382	17	.63726	3.1000	3.1000
antara 51 hingga 60 tahun	3.9714	7	.89343	4.1000	4.1000
Total	3.1282	87	.71442	2.8813	2.9000

Kesedaran_Bising * Tempoh Kerja

Kesedaran_Bising

Tempoh Kerja	Mean	N	Std. Deviation	Grouped Median	Median
kurang dari 2 tahun	2.6717	23	.33433	2.6200	2.6000
antara 3 hingga 6 tahun	3.4510	48	.74266	3.4500	3.4500
antara 7 hingga 10 tahun	2.9944	9	.63661	3.1500	3.1500
lebih dari 10 tahun	2.5857	7	.20558	2.6000	2.6000
Total	3.1282	87	.71442	2.8813	2.9000

Kesedaran_Bising * Bil kemalangan Bising

Kesedaran_Bising

Bil kemalangan Bising	Mean	N	Std. Deviation	Grouped Median	Median
tak pernah	3.0642	67	.71036	2.8571	2.8500
jarang-jarang	3.3368	19	.72204	3.3500	3.3500
kerap kali iaitu lebih 2 kali sebulan	3.4500	1	.	3.4500	3.4500
Total	3.1282	87	.71442	2.8813	2.9000

Notes

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Missing Value Handling	Definition of Missing	For each dependent variable in a table, user-defined missing values for the dependent and all grouping variables are treated as missing.
	Cases Used	Cases used for each table have no missing values in any independent variable, and not all dependent variables have missing values.
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Notes

Output Created		07-AUG-2018 18:52:36
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Missing Value Handling	Definition of Missing	For each dependent variable in a table, user-defined missing values for the dependent and all grouping variables are treated as missing.
	Cases Used	Cases used for each table have no missing values in any independent variable, and not all dependent variables have missing values.
Syntax		MEANS TABLES=Kesedaran_Bising BY Tahap_Kesedaran_Bising /CELLS MEAN COUNT STDDEV MEDIAN SUM HARMONIC.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.02


```
RELIABILITY
  /VARIABLES=NAW1 NAW2 NAW3 NAW4 NAW5 NAW6 NAW7 NAW8 NAW9 NAW10
NAW11 NAW12 NAW13 NAW14 NAW15 NAW16 NAW17 NAW18 NAW19 NAW20
  /SCALE('ALL VARIABLES') ALL
```

/MODEL=ALPHA

/STATISTICS=DESCRIPTIVE SCALE ANOVA

/SUMMARY=TOTAL MEANS.

Reliability

Notes

Output Created		07-AUG-2018 18:55:13
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	N of Rows in Working Data File	87
	Matrix Input	
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.

	Cases Used	Statistics are based on all cases with valid data for all variables in the procedure.
Syntax		RELIABILITY /VARIABLES=NAW1 NAW2 NAW3 NAW4 NAW5 NAW6 NAW7 NAW8 NAW9 NAW10 NAW11 NAW12 NAW13 NAW14 NAW15 NAW16 NAW17 NAW18 NAW19 NAW20 /SCALE('ALL VARIABLES') ALL /MODEL=ALPHA /STATISTICS=DESCRIPTIVE SCALE ANOVA /SUMMARY=TOTAL MEANS.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.02

[DataSet1] C:\Users\W Helmi\Documents\RM DR FAIZAL\HILEMI PAPER\STAT\Untitled4-070818.sav

Scale: ALL VARIABLES

Case Processing Summary

		N	%
Cases	Valid	87	100.0
	Excluded[a]	0	.0
	Total	87	100.0

a. Listwise deletion based on all variables in the procedure.

Reliability Statistics

Cronbach's Alpha	Cronbach's Alpha Based on Standardized Items	N of Items
.878	.849	20

Item Statistics

	Mean	Std. Deviation	N
Item1	4.45	.789	87
Item2	2.72	1.507	87
Item3	2.64	1.389	87

Item4	2.71	1.486	87
Item5	4.24	.792	87
Item6	3.99	.828	87
Item7	2.97	1.401	87
Item8	2.97	1.474	87
Item9	2.43	1.428	87
Item10	3.72	1.420	87
Item11	2.49	1.446	87
Item12	2.57	1.499	87
Item13	2.32	1.206	87
Item14	2.56	1.545	87
Item15	3.75	1.314	87
Item16	3.66	1.076	87
Item17	2.76	1.239	87
Item18	3.95	1.099	87
Item19	2.61	1.324	87
Item20	3.05	1.346	87

Summary Item Statistics

	Mean	Minimum	Maximum	Range	Maximum / Minimum	Variance	N of Items
Item Means	3.128	2.322	4.448	2.126	1.916	.454	20

Item-Total Statistics

	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item-Total Correlation	Squared Multiple Correlation	Cronbach's Alpha if Item Deleted
Item1	58.11	207.870	-.191	.351	.887
Item2	59.84	175.485	.661	.678	.865
Item3	59.92	175.168	.736	.679	.863
Item4	59.85	179.873	.554	.694	.870
Item5	58.32	208.430	-.214	.436	.887
Item6	58.57	202.201	.054	.469	.882
Item7	59.60	177.476	.662	.680	.866
Item8	59.60	172.546	.760	.778	.861
Item9	60.14	171.702	.813	.857	.860
Item10	58.84	186.020	.416	.573	.875
Item11	60.07	170.391	.839	.874	.858
Item12	59.99	171.174	.784	.782	.860
Item13	60.24	189.999	.382	.425	.875
Item14	60.00	172.186	.729	.776	.862
Item15	58.82	201.570	.023	.532	.887
Item16	58.91	191.364	.391	.563	.875
Item17	59.80	185.136	.519	.626	.871
Item18	58.61	205.125	-.069	.502	.887
Item19	59.95	186.486	.440	.543	.874
Item20	59.52	178.508	.663	.693	.866

Scale Statistics

Mean	Variance	Std. Deviation	N of Items
62.56	204.156	14.288	20

ANOVA

		Sum of Squares	df	Mean Square	F	Sig
Between People		877.870	86	10.208		
	Between Items	750.627	19	39.507	31.676	.000
Within People	Residual	2037.923	1634	1.247		
	Total	2788.550	1653	1.687		
Total		3666.420	1739	2.108		

Grand Mean = 3.13


```
DATASET ACTIVATE DataSet1.
SAVE OUTFILE='C:\Users\W Helmi\Documents\RM DR FAIZAL\HILEMI
PAPER\STAT\Untitled4-070818.sav'
 /COMPRESSED.
T-TEST GROUPS=Jantina(1 2)
 /MISSING=ANALYSIS
 /VARIABLES=Tahap_Kesedaran_Bising
 /CRITERIA=CI(.95).
```

T-Test

Notes

Output Created		08-AUG-2018 00:05:04
Comments		
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	N of Rows in Working Data File	87
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.

Syntax		T-TEST GROUPS=Jantina(1 2) /MISSING=ANALYSIS /VARIABLES=Tahap_Kesedaran_Bising /CRITERIA=CI(.95).
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.02

[DataSet1] C:\Users\W Helmi\Documents\RM DR FAIZAL\HILEMI PAPER\STAT\Untitled4-070818.sav

Group Statistics

	Jantina	N	Mean	Std. Deviation	Std. Error Mean
Tahap Kesedaran	Lelaki	79	2.1519	.60104	.06762
	Perempuan	8	1.8750	.35355	.12500

Independent Samples Test

	Levene's Test for Equality of Variances		t-test for Equality of Means

		F	Sig.	t
Tahap Kesedaran	Equal variances assumed	2.639	.108	1.277
	Equal variances not assumed			1.948

Independent Samples Test

		t-test for Equality of Means		
		df	Sig. (2-tailed)	Mean Difference
Tahap Kesedaran	Equal variances assumed	85	.205	.27690
	Equal variances not assumed	11.607	.076	.27690

Independent Samples Test

		t-test for Equality of Means		
		Std. Error Difference	95% Confidence Interval of the Difference	
			Lower	Upper
Tahap Kesedaran	Equal variances assumed	.21691	-.15438	.70818
	Equal variances not assumed	.14212	-.03392	.58771


```
ONEWAY Tahap_Kesedaran_Bising BY TPerkahwinan
 /MISSING ANALYSIS.
```

Oneway

Notes

Output Created		08-AUG-2018 00:06:08
Comments		
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	Split File	<none>
	N of Rows in Working Data File	87
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on cases with no missing data for any variable in the analysis.
Syntax		ONEWAY Tahap_Kesedaran_Bising BY TPerkahwinan /MISSING ANALYSIS.
Resources	Processor Time	00:00:00.00

Elapsed Time	00:00:00.02

[DataSet1] C:\Users\W Helmi\Documents\RM DR FAIZAL\HILEMI PAPER\STAT\Untitled4-070818.sav

ANOVA

Tahap Kesedaran

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2.992	2	1.496	4.721	.011
Within Groups	26.617	84	.317		
Total	29.609	86			

ONEWAY Tahap_Kesedaran_Bising BY TPendidikan

/MISSING ANALYSIS.

Oneway

Notes

Output Created		08-AUG-2018 00:06:33
Comments		
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	N of Rows in Working Data File	87
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on cases with no missing data for any variable in the analysis.
Syntax		ONEWAY Tahap_Kesedaran_Bising BY TPendidikan /MISSING ANALYSIS.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.03

[DataSet1] C:\Users\W Helmi\Documents\RM DR FAIZAL\HILEMI PAPER\STAT\Untitled4-070818.sav

ANOVA

Tahap Kesedaran

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	5.292	4	1.323	4.462	.003
Within Groups	24.317	82	.297		
Total	29.609	86			

```
ONEWAY Tahap_Kesedaran_Bising BY Bangsa
  /MISSING ANALYSIS.
```


Oneway

Notes

Output Created	08-AUG-2018 00:06:54
Comments	

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	N of Rows in Working Data File	87
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on cases with no missing data for any variable in the analysis.
Syntax		ONEWAY Tahap_Kesedaran_Bising BY Bangsa /MISSING ANALYSIS.
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.02

[DataSet1] C:\Users\W Helmi\Documents\RM DR FAIZAL\HILEMI PAPER\STAT\Untitled4-070818.sav

ANOVA

Tahap Kesedaran

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	6.424	3	2.141	7.666	.000
Within Groups	23.185	83	.279		
Total	29.609	86			

```
ONEWAY Tahap_Kesedaran_Bising BY Umur
 /MISSING ANALYSIS.
```


Oneway

Notes

Output Created		08-AUG-2018 00:07:22
Comments		
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	Weight	<none>
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	N of Rows in Working Data File	87
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on cases with no missing data for any variable in the analysis.
Syntax		ONEWAY Tahap_Kesedaran_Bising BY Umur /MISSING ANALYSIS.
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.02

[DataSet1] C:\Users\W Helmi\Documents\RM DR FAIZAL\HILEMI PAPER\STAT\Untitled4-070818.sav

ANOVA

Tahap Kesedaran

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	3.954	3	1.318	4.264	.007
Within Groups	25.655	83	.309		

Total	29.609	86			

ONEWAY Tahap_Kesedaran_Bising BY Perkhidmatan

/MISSING ANALYSIS.

Oneway

Notes

Output Created		08-AUG-2018 00:07:36
Comments		
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	N of Rows in Working Data File	87

Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on cases with no missing data for any variable in the analysis.
Syntax		ONEWAY Tahap_Kesedaran_Bising BY Perkhidmatan /MISSING ANALYSIS.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.02

[DataSet1] C:\Users\W Helmi\Documents\RM DR FAIZAL\HILEMI PAPER\STAT\Untitled4-070818.sav

ANOVA

Tahap Kesedaran

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	5.860	3	1.953	6.826	.000
Within Groups	23.749	83	.286		
Total	29.609	86			

ONEWAY Tahap_Kesedaran_Bising BY Kemalangan

/MISSING ANALYSIS.

Oneway

Notes

Output Created		08-AUG-2018 00:07:52
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	N of Rows in Working Data File	87
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on cases with no missing data for any variable in the analysis.
Syntax		ONEWAY Tahap_Kesedaran_Bising BY Kemalangan /MISSING ANALYSIS.
Resources	Processor Time	00:00:00.02

Elapsed Time	00:00:00.03

[DataSet1] C:\Users\W Helmi\Documents\RM DR FAIZAL\HILEMI PAPER\STAT\Untitled4-070818.sav

ANOVA

Tahap Kesedaran

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1.427	2	.713	2.127	.126
Within Groups	28.182	84	.336		
Total	29.609	86			

Tahap Kesedaran Keselamatan Pekerja Yang Terdedah Terhadap Bunyi Bising Di Industri Pembuatan Membuat Tangki Pengandung Tekanan di Malaysia

Objektif kajian

a) Mengenalpasti tahap kesedaran pekerja terhadap bunyi bising dan keselamatan pendengaran di sektor pembuatan fabrikasi besi yang menghasilkan tangki pengandung tekanan tak berapi (pressure vessel, PV)

b)Mengenalpasti hubungkait di antara demografik pekerja ddengan tahap kesedaran pekerja terhadap bunyi bising dan keselamatan pendengaran di sektor pembuatan fabrikasi besi yang menghasilkan tangki pengandung tekanan tak berapi (pressure vessel, PV)

Seksyen A: Maklumat Demografi	**Bulatkan dan Isikan Jawapan yang berkaitan**				
1.Jantina anda**(Your gender)**	Lelaki (Male)	Perempuan (Female)			
2.Taraf perkahwinan anda **(Your marital status):**	Bujang (Single)	Berkahwin (Married)	Bercerai/Balu (Divorced/widowed)		
3.Tahap pendidikan tertinggi anda **(Your highest educational level)**	Sekolah rendah (Primary education)	LCE/SRP/PMR	MCE/SPM/SPMV	HSC/STPM	Lain-lain, sila nyatakan (Others, please specify): _____
4.Bangsa **(Race):**	Melayu (Malay)	Cina (Chinese)	India (Indian)	Lain-lain, sila nyatakan (Others,	_____
5. Umur anda**(Your age):**					
6. Sudah berapa lama anda berkhidmat dengan syarikat yang ada bekerja sekarang? **(How long have you been working with current company?)**					
7. Berapa kalikah anda terlibat dengan kemalangan berkaitan bunyi bising sejak bekerja dengan syarikat sekarang? **(How many time have you involved with any accident since working in the current Company)**					

Seksyen B: Bunyi Bising di Tempat Kerja Section B: (Noise at Work) Sejauh mana anda bersetuju atau tidak bersetuju dengan setiap kenyataan di bawah. Tandakan (∨) jawapan anda berpandukan skala di bawah. **(To what extent you agree or disagree whether cach statement below describes your current employer? Tick (√) your answer using the scale below).**	**Skala/Scale**				
	Sangat tidak setuju	**Tidak setuju**	**Agak setuju**	**Setuju**	**Excellent**
1. Saya tahu bagaimana untuk menggunakan *earmuff* dan plag telinga(earplugs)/**I know how to use earmuffs or earplugs**	1	2	3	4	5
2. Pendengaran saya tidak akan rosak oleh bunyi bising di tempat kerja/ **My hearing will not be damaged by noise at work**	1	2	3	4	5
3. Pihak pengurusan di tempat kerja secara umumnya tidak berminat mengenai isu keselamatan dan kesihatan pekerjaan (OSH)/ **Management in the workplaces are generally not interested in OccupationalSafely and Health**	1	2	3	4	5
4. Bunyi bising ditempat kerja tidak menggangu saya/ **Noise at work will not bother me**	1	2	3	4	5
5. Kerja akan menjadi lebih kurang tekanan jika tempat kerja lebih senyap/ **Work would be less stressful if it was quieter**	1	2	3	4	5
6. Membuat peralatan atau mesin menjadi lebih senyap adalah sukar/**It is difficult to make equipment (machines) quieter.**	1	2	3	4	5
7. Mendengar bunyi-bunyi rekreasi yang kuat (contoh konsert rock,live band,disko,muzik,mcsin rumput.lumba motosikal/kereta) tidak akan menjejaskan pendengaran semasa tua/ **Listening to loud recreational noise (e g rock consert, live band, disco, .music, lawnmovers, motorbike riding) does not affect hearing in old age).**	1	2	3	4	5
8. Saya tidak akan mempunyai masa untuk melakukan sesuatu terhadap bunyi bising ditempat kerja/ **I would not have time to do anything about noise at work**	1	2	3	4	5
9. Saya akan suka bila terdapat bunyi bising/ **I like it when it is noisy**	1	2	3	4	5
10. Selain daripada pendengaran,bunyi bising juga memberi kesan buruk kepada kesihatan saya./ **Noise has bad effect on my health other than hearing**	1	2	3	4	5
11. Saya tidak pasti saya boleh menggunakan alat pelindung pendengaran dengan betul/ **I am not sure that I would be able to use my hearing protectors correctly**	1	2	3	4	5
12. Tiada sebarang perbezaan kepada pendengaran saya jika sekiranya tempat kerja lebih senyap/ **It will make no difference to my hearing if it is quitter at work**	1	2	3	4	5
13. Pemakaian earmuff dan plug telinga adalah tidak selesa/ **Hearing protectors are uncomfortable**	1	2	3	4	5
14. Saya bekerja dengan lebih baik jika terdapat bunyi bising/**I work better if it is noisy**	1	2	3	4	5
15. Bunyi bising menyebabkan saya tidak boleh berfikir/**Noise stops me from being able to think**	1	2	3	4	5
16. Saya tidak boleh mengurangkan bunyi bising di tempat kerja,**/I will not be able to reduce noise at work**	1	2	3	4	5
17. Pekerja di tempat kerja tidak risau mengenai bunyi bising/ **People at work do not worry about noise**	1	2	3	4	5
18. Saya akan rasa lebih baik jika tempat kerja saya kurang bunyi bising. / **I would feel better if my workplace was less noisy**	1	2	3	4	5
19. Bunyi bising hanya menjejaskan pendengaran orang yang mempunyai telinga yang sensitive/ **Noise only effects hearing in people with sensitive ears.**	1	2	3	4	5
20. Alat pelindung pendengaran akan menghalang saya daripada mendengar apa yang hendak didengar/ **Hearing protectors will stop me from hearing what I want to hear**	1	2	3	4	5