PODONGS SIVELENT SWVCY Code GOOD Page 2

List of variables on the working file

Name		Position
NAME	Print Format: A15 Write Format: A15	1
FIRST	Print Format: A15 Write Format: A15	3
SSN	Print Format: F9.2 Write Format: F9.2	5
DEGREE	TO OBTAIN DEGREE OR CERTIFICATE Print Format: F1 Write Format: F1 Missing Values: 9	6
	Value Label	
	0 NO 1 YES	
TRANSFER	TO COMPLETE COURSES NECESSARY FOR TRANSFER Print Format: F1 Write Format: F1 Missing Values: 9	7
	Value Label	
	0 NO 1 YES	
CAREER	TO PREPARE FOR A NEW CAREER Print Format: F1 Write Format: F1 Missing Values: 9	8
	Value Label	
	0 NO 1 YES	

PROMOTE	TO INCREASE CHANCES FOR RAISE/PROMOTION Print Format: F1 Write Format: F1 Missing Values: 9	9
	Value Label	
	0 NO 1 YES	
EMPLOY	TO MEET EMPLOYERS REQS Print Format: F1 Write Format: F1 Missing Values: 9	10
	Value Label	
	0 NO 1 YES	
PERSONAL	PERSONAL INTEREST Print Format: F1 Write Format: F1 Missing Values: 9	11
	Value Label	
	0 NO 1 YES	
EXPECT	DID OCC ROB COURSES MEET YOUR EXPECTATIONS Print Format: F1 Write Format: F1 Missing Values: 9	12
	Value Label	
	0 NO 1 YES	
MAJOR	WHAT WAS YOUR MAJOR FIELD OF STUDY AT OCC Print Format: A8 Write Format: A8 Missing Values: 'XXX'	13

04 Apr 95	SPSS for MS WINDOWS Release 6.1	Page 4
EMPLOYED	CURRENTLY ARE YOU EMPLOYED OR OUT OF THE WORKFORCE Print Format: F8 Write Format: F8 Missing Values: 9	14
	Value Label	
	1 FULLTIME 2 PARTTIME 3 UNEMPLOYED/SEEKING 4 UNEMPLOYED/NOT SEEKING	
SCALE		15
	Print Format: F8 Write Format: F8	
	Value Label	
	88 DOES NOT APPLY	
POSITION	WHICH CATEGORY MOST ACCURATELY DESCRIBES YOUR POSITION Print Format: F8 Write Format: F8 Missing Values: 9	16
	Value Label	
	1 TECHNICIAN/SERVICE (COMPANY) 2 TECHNICIAN/SERVICE (MANUFACTURER) 3 SYSTEMS BUILDER 4 OTHER 8 DOES NOT APPLY	
CURRENT	CURRENT JOPB REQUIRE SKILLS BEYOND OCC OFFERINGS Print Format: F8 Write Format: F8 Missing Values: 9	17

Value

1

2

8

Label

YES

DOES NOT APPLY

NO

04 Apr 95	S SPSS for MS WINDOWS Release 6.1	Page 5
SKILL1	REPEATABILITY Print Format: F8 Write Format: F8 Missing Values: 9	18
	Value Label	
	1 NOT AT ALL IMPORTANT 2 SOMEWHAT IMPORTANT 3 VERY IMPORTANT 8 DOES NOT APPLY	
SKILL2	INTERFACING Print Format: F8 Write Format: F8 Missing Values: 9	19
	Value Label	
	1 NOT AT ALL IMPORTANT 2 SOMEWHAT IMPORTANT 3 VERY IMPORTANT 8 DOES NOT APPLY	
SKILL3	SAFETY SKILLS Print Format: F8 Write Format: F8 Missing Values: 9	20
	Value Label	
	1 NOT AT ALL IMPORTANT 2 SOMEWHAT IMPORTANT 3 VERY IMPORTANT 8 DOES NOT APPLY	
SKILL4	gmaw Print Format: F8 Write Format: F8 Missing Values: 9	21
	Value Label	
	1 NOT AT ALL IMPORTANT 2 SOMEWHAT IMPORTANT 3 VERY IMPORTANT 8 DOES NOT APPLY	

04 Apr 9	95 SPSS for MS WINDOWS Release 6.1	Page 6
SKILL5	JOINT DESIGN Print Format: F8 Write Format: F8 Missing Values: 9	22
	Value Label	
	1 NOT AT ALL IMPORTANT 2 SOMEWHAT IMPORTANT 3 VERY IMPORTANT 8 DOES NOT APPLY	
SKILL6	WELD POSITIONS Print Format: F8 Write Format: F8 Missing Values: 9	23
	Value Label	
	NOT AT ALL IMPORTANT SOMEWHAT IMPORTANT VERY IMPORTANT DOES NOT APPLY	
SKILL7	SENSOR USAGE Print Format: F8 Write Format: F8 Missing Values: 9	24
	Value Label	
	1 NOT AT ALL IMPORTANT 2 SOMEWHAT IMPORTANT 3 VERY IMPORTANT 8 DOES NOT APPLY	
SKILL8	SENSOR UNDERSTANDING Print Format: F8 Write Format: F8 Missing Values: 9	25
	Value Label	
	1 NOT AT ALL IMPORTANT 2 SOMEWHAT IMPORTANT 3 VERY IMPORTANT 8 DOES NOT APPLY	

04 Apr 9	95 SPSS for MS WINDOWS Release 6.1	Page 7
SKILL9	SENSOR CATEGORIES Print Format: F8 Write Format: F8 Missing Values: 9	26
	Value Label	
	1 NOT AT ALL IMPORTANT 2 SOMEWHAT IMPORTANT 3 VERY IMPORTANT 8 DOES NOT APPLY	
SKILL10	TROUBLESHOOTING Print Format: F8 Write Format: F8 Missing Values: 9	27
	Value Label	
	1 NOT AT ALL IMPORTANT 2 SOMEWHAT IMPORTANT 3 VERY IMPORTANT 8 DOES NOT APPLY	
SKILL11	TEST POINTS Print Format: F8 Write Format: F8 Missing Values: 9	28
	Value Label	
	1 NOT AT ALL IMPORTANT 2 SOMEWHAT IMPORTANT 3 VERY IMPORTANT 8 DOES NOT APPLY	
SKILL12	ERROR CODES Print Format: F8 Write Format: F8 Missing Values: 9	29
	Value Label	
	1 NOT AT ALL IMPORTANT 2 SOMEWHAT IMPORTANT 3 VERY IMPORTANT 8 DOES NOT APPLY	

TRAIN1	ROBOT SAFETY Print Format: F8 Write Format: F8 Missing Values: 9	30
	Value Label	
	1 UNSATISFACTORY 2 SATISFACTORY 3 EXCELLENT 8 DID NOT COVER/DOES NOT APPLY	
TRAIN2	MECHANICAL DESIGN Print Format: F8 Write Format: F8 Missing Values: 9	31
	Value Label	
	1 UNSATISFACTORY 2 SATISFACTORY 3 EXCELLENT 8 DID NOT COVER/DOES NOT APPLY	
TRAIN3	SENSOR SELECTION Print Format: F8 Write Format: F8 Missing Values: 9	32
	Value Label	
	1 UNSATISFACTORY 2 SATISFACTORY 3 EXCELLENT 8 DID NOT COVER/DOES NOT APPLY	
TRAIN4	END EFFECTOR NOMENCLATURE Print Format: F8 Write Format: F8 Missing Values: 9	33
	Value Label	
	1 UNSATISFACTORY 2 SATISFACTORY 3 EXCELLENT 8 DID NOT COVER/DOES NOT APPLY	

04 Apr 9	95 SPSS for MS WINDOWS Release 6.1	Page 9
TRAIN5	CONTROLLER ARCHITECTURE Print Format: F8 Write Format: F8 Missing Values: 9	34
	Value Label	
	1 UNSATISFACTORY 2 SATISFACTORY 3 EXCELLENT 8 DID NOT COVER/DOES NOT APPLY	
TRAIN6	MANIPULATOR INSTALLATION Print Format: F8 Write Format: F8 Missing Values: 9	35
	Value Label	
	1 UNSATISFACTORY 2 SATISFACTORY 3 EXCELLENT 8 DID NOT COVER/DOES NOT APPLY	
TRAIN7	PREVENTATIVE MAINTENANCE Print Format: F8 Write Format: F8 Missing Values: 9	36
	Value Label	
	1 UNSATISFACTORY 2 SATISFACTORY 3 EXCELLENT 8 DID NOT COVER/DOES NOT APPLY	
TRAIN8	PLC INSTALLATION Print Format: F8 Write Format: F8 Missing Values: 9	37
	Value Label	
	1 UNSATISFACTORY 2 SATISFACTORY 3 EXCELLENT 8 DID NOT COVER/DOES NOT APPLY	

TRAIN9	TROUBLESHOOTING Print Format: F8 Write Format: F8 Missing Values: 9	38
	Value Label	
	1 UNSATISFACTORY 2 SATISFACTORY 3 EXCELLENT 8 DID NOT COVER/DOES NOT APPLY	
TRAIN10	SCHEMATICS Print Format: F8 Write Format: F8 Missing Values: 9	39
	Value Label	
	1 UNSATISFACTORY 2 SATISFACTORY 3 EXCELLENT 8 DID NOT COVER/DOES NOT APPLY	
VAR00011	ROBOT SAFETY Print Format: F8 Write Format: F8 Missing Values: 9	40
	Value Label	
	1 UNSATISFACTORY 2 SATISFACTORY 3 EXCELLENT 8 DID NOT COVER/DOES NOT APPLY	
VAR00012	ROBOT SAFETY Print Format: F8 Write Format: F8 Missing Values: 9	41
	Value Label	
	1 UNSATISFACTORY 2 SATISFACTORY 3 EXCELLENT 8 DID NOT COVER/DOES NOT APPLY	

04 Apr 95	SPSS for MS WINDOWS Release 6.1	Page 11
VAR00013	ROBOT SAFETY	42
	Print Format: F8	
	Write Format: F8 Missing Values: 9	
	Value Label	
	1 UNSATISFACTORY	
	2 SATISFACTORY	
	3 EXCELLENT	
	8 DID NOT COVER/DOES NOT APPLY	
VAR00001		43
	Print Format: F8.2	
	Write Format: F8.2	

List of variables on the working file

Name		Position
NAME	Print Format: A15 Write Format: A15	1
FIRST	Print Format: A15 Write Format: A15	3
SSN	Print Format: F9.2 Write Format: F9.2	5
DEGREE	TO OBTAIN DEGREE OR CERTIFICATE Print Format: F1 Write Format: F1 Missing Values: 9	6
	Value Label	
	0 NO 1 YES	
TRANSFER	TO COMPLETE COURSES NECESSARY FOR TRANSFER Print Format: F1 Write Format: F1 Missing Values: 9	7
	Value Label	
	0 NO 1 YES	
CAREER	TO PREPARE FOR A NEW CAREER Print Format: F1 Write Format: F1 Missing Values: 9	8
	Value Label	
	0 NO 1 YES	

PROMOTE	TO INCREASE CHANCES FOR RAISE/PROMOTION Print Format: F1 Write Format: F1 Missing Values: 9	9
	Value Label	
	0 NO 1 YES	
EMPLOY	TO MEET EMPLOYERS REQS Print Format: F1 Write Format: F1 Missing Values: 9	10
	Value Label	
	0 NO 1 YES	
PERSONAL	PERSONAL INTEREST Print Format: F1 Write Format: F1 Missing Values: 9	11
	Value Label	
	0 NO 1 YES	
EXPECT	DID OCC ROB COURSES MEET YOUR EXPECTATIONS Print Format: F1 Write Format: F1 Missing Values: 9	12
	Value Label	
	0 NO 1 YES	
MAJOR	WHAT WAS YOUR MAJOR FIELD OF STUDY AT OCC Print Format: A8 Write Format: A8 Missing Values: 'XXX'	13

EMPLOYED	CURRENTLY ARE YOU EMPLOYED OR OUT OF THE WORKFORCE Print Format: F8 Write Format: F8 Missing Values: 9	14
	Value Label	
	1 FULLTIME 2 PARTTIME 3 UNEMPLOYED/SEEKING 4 UNEMPLOYED/NOT SEEKING	
SCALE	Print Format: F8	15
	Write Format: F8	
	Value Label	
	88 DOES NOT APPLY	
POSITION	WHICH CATEGORY MOST ACCURATELY DESCRIBES YOUR POSITION Print Format: F8 Write Format: F8 Missing Values: 9	16
	Value Label	
	1 TECHNICIAN/SERVICE (COMPANY) 2 TECHNICIAN/SERVICE (MANUFACTURER) 3 SYSTEMS BUILDER 4 OTHER 8 DOES NOT APPLY	
CURRENT	CURRENT JOPB REQUIRE SKILLS BEYOND OCC OFFERINGS Print Format: F8 Write Format: F8 Missing Values: 9	17
	Value Label	
	1 YES 2 NO 8 DOES NOT APPLY	

04 Apr	95 SPSS for MS WINDOWS Release 6.1	Page	15
SKILL1	REPEATABILITY Print Format: F8 Write Format: F8 Missing Values: 9		18
	Value Label		
	1 NOT AT ALL IMPORTANT 2 SOMEWHAT IMPORTANT 3 VERY IMPORTANT 8 DOES NOT APPLY		
SKILL2	INTERFACING Print Format: F8 Write Format: F8 Missing Values: 9		19
	Value Label		
	1 NOT AT ALL IMPORTANT 2 SOMEWHAT IMPORTANT 3 VERY IMPORTANT 8 DOES NOT APPLY		
SKILL3	SAFETY SKILLS Print Format: F8 Write Format: F8 Missing Values: 9		20
	Value Label		
	1 NOT AT ALL IMPORTANT 2 SOMEWHAT IMPORTANT 3 VERY IMPORTANT 8 DOES NOT APPLY		
SKILL4	gmaw Print Format: F8 Write Format: F8 Missing Values: 9		21

Value

1

Label

NOT AT ALL IMPORTANT

2 SOMEWHAT IMPORTANT 3 VERY IMPORTANT 8 DOES NOT APPLY

04 Apr 9	95 SPSS for MS WINDOWS Release 6.1	Page	16
SKILL5	JOINT DESIGN Print Format: F8 Write Format: F8 Missing Values: 9		22
	Value Label		
	1 NOT AT ALL IMPORTANT 2 SOMEWHAT IMPORTANT 3 VERY IMPORTANT 8 DOES NOT APPLY		
SKILL6	WELD POSITIONS Print Format: F8 Write Format: F8 Missing Values: 9		23
	Value Label		
	1 NOT AT ALL IMPORTANT 2 SOMEWHAT IMPORTANT 3 VERY IMPORTANT 8 DOES NOT APPLY		
SKILL7	SENSOR USAGE Print Format: F8 Write Format: F8 Missing Values: 9		24
	Value Label		
	1 NOT AT ALL IMPORTANT 2 SOMEWHAT IMPORTANT 3 VERY IMPORTANT 8 DOES NOT APPLY		
SKILL8	SENSOR UNDERSTANDING Print Format: F8 Write Format: F8 Missing Values: 9	;	25

Value

Label

NOT AT ALL IMPORTANT SOMEWHAT IMPORTANT VERY IMPORTANT DOES NOT APPLY

04 Apr 95	SPSS for MS WINDOWS Release 6.1	Page	17
SKILL9	SENSOR CATEGORIES Print Format: F8 Write Format: F8 Missing Values: 9		26
	Value Label		
	1 NOT AT ALL IMPORTANT 2 SOMEWHAT IMPORTANT 3 VERY IMPORTANT 8 DOES NOT APPLY		
SKILL10	TROUBLESHOOTING Print Format: F8 Write Format: F8 Missing Values: 9		27
	Value Label		
	1 NOT AT ALL IMPORTANT 2 SOMEWHAT IMPORTANT 3 VERY IMPORTANT 8 DOES NOT APPLY		
SKILL11	TEST POINTS Print Format: F8 Write Format: F8 Missing Values: 9		28
	Value Label		
	1 NOT AT ALL IMPORTANT 2 SOMEWHAT IMPORTANT 3 VERY IMPORTANT 8 DOES NOT APPLY		
SKILL12	ERROR CODES Print Format: F8 Write Format: F8 Missing Values: 9		29
	Value Label		
	1 NOT AT ALL IMPORTANT 2 SOMEWHAT IMPORTANT 3 VERY IMPORTANT 8 DOES NOT APPLY		

TRAIN1	ROBOT SAFETY Print Format: F8 Write Format: F8 Missing Values: 9	30
	Value Label	
	1 UNSATISFACTORY 2 SATISFACTORY 3 EXCELLENT 8 DID NOT COVER/DOES NOT APPLY	
TRAIN2	MECHANICAL DESIGN Print Format: F8 Write Format: F8 Missing Values: 9	31
	Value Label	
	1 UNSATISFACTORY 2 SATISFACTORY 3 EXCELLENT 8 DID NOT COVER/DOES NOT APPLY	
TRAIN3	SENSOR SELECTION Print Format: F8 Write Format: F8 Missing Values: 9	32
	Value Label	
	1 UNSATISFACTORY 2 SATISFACTORY 3 EXCELLENT 8 DID NOT COVER/DOES NOT APPLY	
TRAIN4	END EFFECTOR NOMENCLATURE Print Format: F8 Write Format: F8 Missing Values: 9	33
	Value Label	
	1 UNSATISFACTORY 2 SATISFACTORY 3 EXCELLENT 8 DID NOT COVER/DOES NOT APPLY	

TRAIN5	CONTROLLER ARCHITECTURE Print Format: F8 Write Format: F8 Missing Values: 9	34
	Value Label	
	1 UNSATISFACTORY	
	2 SATISFACTORY	
	3 EXCELLENT	
	8 DID NOT COVER/DOES NOT APPLY	
TRAIN6	MANIPULATOR INSTALLATION	35
	Print Format: F8	
	Write Format: F8	
	Missing Values: 9	
	Value Label	
	1 UNSATISFACTORY	
	2 SATISFACTORY	
	3 EXCELLENT	
	8 DID NOT COVER/DOES NOT APPLY	
TRAIN7	PREVENTATIVE MAINTENANCE	36
	Print Format: F8	
	Write Format: F8	
	Missing Values: 9	
	Value Label	
	1 UNSATISFACTORY	
	2 SATISFACTORY	
	3 EXCELLENT	
	8 DID NOT COVER/DOES NOT APPLY	
TRAIN8	PLC INSTALLATION	37
	Print Format: F8	
	Write Format: F8	
	Missing Values: 9	
	Value Label	
	1 UNSATISFACTORY	
	2 SATISFACTORY	
	3 EXCELLENT	
	8 DID NOT COVER/DOES NOT APRILY	

04 Apr 95	SPSS for MS WINDOWS Release 6.1	Page	20
TRAIN9	TROUBLESHOOTING Print Format: F8 Write Format: F8 Missing Values: 9		38
	Value Label		
	1 UNSATISFACTORY 2 SATISFACTORY 3 EXCELLENT 8 DID NOT COVER/DOES NOT APPLY		
TRAIN10	SCHEMATICS Print Format: F8 Write Format: F8 Missing Values: 9		39
	Value Label		
	1 UNSATISFACTORY 2 SATISFACTORY 3 EXCELLENT 8 DID NOT COVER/DOES NOT APPLY		
VAR00011	ROBOT SAFETY Print Format: F8 Write Format: F8 Missing Values: 9		40
	Value Label		
	1 UNSATISFACTORY 2 SATISFACTORY 3 EXCELLENT 8 DID NOT COVER/DOES NOT APPLY		
	ROBOT SAFETY Print Format: F8 Write Format: F8 Missing Values: 9		41
	Value Label		
	1 UNSATISFACTORY 2 SATISFACTORY 3 EXCELLENT 8 DID NOT COVER/DOES NOT APPLY		

EXCELLENT
DID NOT COVER/DOES NOT APPLY

04 Apr 95	SPSS for	MS WINDOWS Release 6.1	Page 2	21
VAR00013	Write Fo	FETY rmat: F8 rmat: F8 Values: 9		42
	Value	Label		
	1 2 3 8	UNSATISFACTORY SATISFACTORY EXCELLENT DID NOT COVER/DOES NOT AR	PPLY	

43

VAR00001

Print Format: F8.2 Write Format: F8.2

SKILL7 SENSOR USAGE							CIIC
Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent	nx	73.3
NOT AT ALL IMPORTANT SOMEWHAT IMPORTANT VERY IMPORTANT DOES NOT APPLY	1 2 3 8 9	3 21 39 3 2	4.4 30.9 57.4 4.4 2.9	4.8 33.3 61.9 Missing Missing	4.8 38.1 100.0	W1.5	17
	Total	68	100.0	100.0			
Valid cases 63	Missing c	ases 5					
SKILL8 SENSOR UNDERS	 TANDING				888	V8	814
Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent		24. 7
NOT AT ALL IMPORTANT SOMEWHAT IMPORTANT VERY IMPORTANT DOES NOT APPLY	1 2 3 8 9	2 22 39 3 2	2.9 32.4 57.4 4.4 2.9	3.2 34.9 61.9 Missing Missing	3.2 38.1 100.0	65.4	73.3
	Total	68	100.0	100.0			
Valid cases 63	Missing c	ases 5					
SKILL9 SENSOR CATEGO	RIES					UN	8415
Value Label	Value	Frequency					233
NOT AT ALL IMPORTANT SOMEWHAT IMPORTANT VERY IMPORTANT DOES NOT APPLY	1 2 3 8 9	7 39 17 3 2	10.3 57.4 25.0 4.4 2.9	11.1 61.9 27.0 Missing Missing	11.1 73.0 100.0	23.1	/
	Total	68	100.0	100.0			
Valid cases 63	Missing c	ases 5					

SKILL10 TROUBLESHOOTING

	Advices:						
Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent	NX	84.7
NOT AT ALL IMPORTANT SOMEWHAT IMPORTANT VERY IMPORTANT DOES NOT APPLY	1 2 3 8 9	3 15 45 3 2	4.4 22.1 66.2 4.4 2.9	4.8 23.8 71.4 Missing Missing	4.8 28.6 100.0	81.5	85.7
	Total	68	100.0	100.0			
Valid cases 63	Missing o	ases 5	i.				
SKILL11 TEST POINTS							
Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent	14	845 46.2
NOT AT ALL IMPORTANT SOMEWHAT IMPORTANT VERY IMPORTANT DOES NOT APPLY	1 2 3 8 9	13 22 26 3 4	19.1 32.4 38.2 4.4 5.9	21.3 36.1 42.6 Missing Missing 100.0	21.3 57.4 100.0	ule.2	Maria
Valid cases 61	Missing c	ases 7					
SKILL12 ERROR CODES							
Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent	101	SUS
NOT AT ALL IMPORTANT SOMEWHAT IMPORTANT VERY IMPORTANT DOES NOT APPLY	1 2 3 8 9	8 16 38 3 3	11.8 23.5 55.9 4.4 4.4	12.9 25.8 61.3 Missing Missing	12.9 38.7 100.0	109.2	64.3
	Total	68	100.0	100.0			
Valid cases 62	Missing c	ases 6					

POB Student Withdrawas Date

Get File='X:\SWSDATA\SWS.SYS'.
The SPSS/PC+ system file is read from
 file X:\SWSDATA\SWS.SYS
The file was created on 3/6/95 at 11:55:57
and is titled SWS Command file
The SPSS/PC+ system file contains
 19102 cases, each consisting of
 67 variables (including system variables).

67 variables (including system variables).
67 variables will be used in this session.

Rollin

Suffer Walaker

-claraboth section 5 from Sire:
- Salanics
- Length of time to had jub
- July Sate Program skhepachor

Page

This procedure was completed at 12:17:17 Join Match File='X:\SWSDATA\SWSQ2.SYS'/File='X:\SWSDATA\SWSQ7.SYS'/File*/By SSN.

WARNING 1037 Duplicate key encountered. Key values: 3.60201E+006

This procedure was completed at 12:23:13

Select if (SSN GT 0). Select if (SSN LT 999999999).

Select if (PREFIX1 EQ 'ROB' OR PREFIX2 EQ 'ROB' OR PREFIX3 EQ 'ROB' OR PREFIX4 EQ 'ROB').

Compute AGE=((YRMODA (YY, MM, DD) - YRMODA (BYY, BMM, BDD)) / 365.25).

Recode RETURN (7 8=9). Recode RACE (2 THRU 7=0).

Value Labels RACE 1 'Non-Minority' 0 'Minority'.

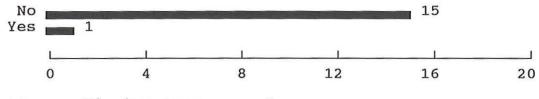
Frequencies Variables=Trans To Other/Barchart. The raw data or transformation pass is proceeding 16 cases are written to the compressed active file.

**** Memory allows a total of 17873 Values, accumulated across all Variables. There also may be up to 2234 Value Labels for each Variable.

SPSS/PC+

TRANS Transportation problems

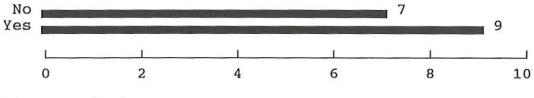
Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
No Yes	0 1	15 1	93.8 6.3	93.8	93.8 100.0
	Total	16	100.0	100.0	



Valid cases 16 Missing cases 0

WORK Conflict with work

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
No Yes	0 1	7 9	43.8 56.3	43.8 56.3	43.8 100.0
	Total	16	100.0	100.0	



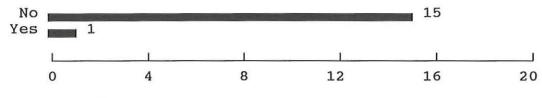
Valid cases

16 Missing cases 0

SPSS/PC+

MOVING Moving out of the area

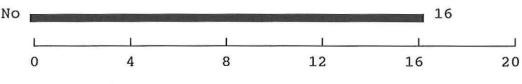
Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
No Yes	0	15 1	93.8	93.8	93.8 100.0
165	_				100.0
	Total	16	100.0	100.0	



Valid cases 16 Missing cases 0

FINANCES Financial reasons

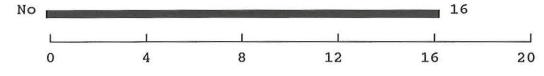
Value Label	Value	Frequency	Percent	Percent	Percent
No	0	16	100.0	100.0	100.0
	Total	16	100.0	100.0	
	TOCAL	10	100.0	100.0	



Valid cases 16 Missing cases 0

CONFLICT Conflict with instructor

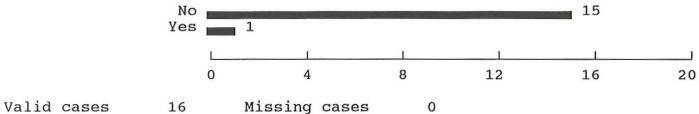
Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
No	0	16	100.0	100.0	100.0
	Total	16	100.0	100.0	



Valid cases 16 Missing cases 0

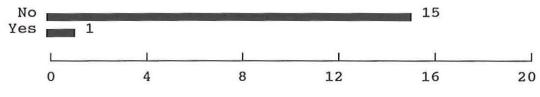
MEDICAL Medical reasons

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
No	0	15	93.8	93.8	93.8
Yes	1	1	6.3	6.3	100.0
	Total	16	100.0	100.0	



CHILD Child care problems

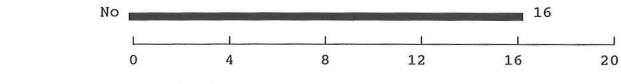
Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
No Yes	0 1	15 1	93.8	93.8	93.8 100.0
	Total	16	100.0	100.0	



Valid cases 16 Missing cases 0

REGERROR Registration error

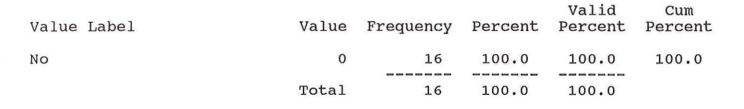
Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
No	0	16	100.0	100.0	100.0
	Total	16	100.0	100.0	

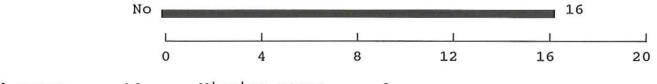


Valid cases

16 Missing cases 0

HARD Course too difficult

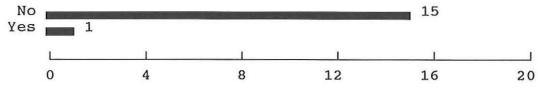




Valid cases 16 Missing cases 0

EASY Course too easy

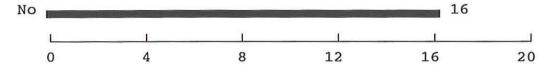
Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
No	0	15	93.8	93.8	93.8
Yes	1	1	6.3	6.3	100.0
	Total	16	100.0	100.0	



Valid cases 16 Missing cases 0

SCHEDULE Course scheduling conflict

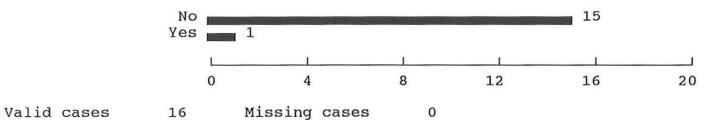
Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
No	0	16	100.0	100.0	100.0
	Total	16	100.0	100.0	



Valid cases 16 Missing cases 0

PERSONAL Personal reasons

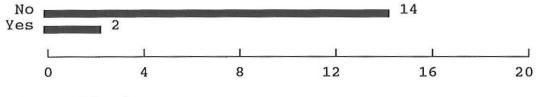
Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
No	0	15	93.8	93.8	93.8
Yes	1	1	6.3	6.3	100.0
	Total	16	100.0	100.0	



SPSS/PC+

EXPECTED Course was not what I expected

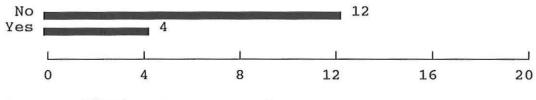
Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
No Yes	0 1	14 2	87.5 12.5	87.5 12.5	87.5 100.0
	Total	16	100.0	100.0	



Valid cases 16 Missing cases 0

OTHER Other reason

Value	Frequency	Percent	Valid Percent	Cum Percent
0 1	12 4	75.0 25.0	75.0 25.0	75.0 100.0
Total	16	100.0	100.0	
	0 1	0 12 1 4	0 12 75.0 1 4 25.0	Value Frequency Percent Percent 0 12 75.0 75.0 1 4 25.0 25.0



Valid cases 16 Missing cases 0

Oakland Community College Robotics Needs Assessment Student Survey

	SSN:			
1.	I'm going to read you a list of common reasons why students en me whether or not these reasons apply to your decision to enroll			
		Yes	No	
	a. To obtain a degree or certificate	1	0	
	b. To complete courses necessary for transfer to another college	1	0	
	c. To prepare for a new career	1	0	
	d. To increase chances for a raise and/or a promotion	1	0	
	e. To comply with current employer's requirements	1	0	
	f. Personal interest	1	0	
	g. Other, please explain:	-		
2.	Given the reasons you just mentioned, do you feel that the Robot your expectations? 1 Yes 0 No, please explain:		you took at OC	C met
3.	What is/was your major program of study at OCC?			
4.	Currently, are you employed, or are you out of the workforce? If employed, ask: Is this full-time or part-time work? If unemployed, ask: Are you currently seeking employment?			
	Full-time Part-time Unemployed, seeking work (skip to 10) Unemployed, not seeking work (skip to 10) No response			

it elated		1	2	3	4	5	6	7	8	9	10	Highly related
					1							
	Please	tell me	e which	of the	e follow	ing ca	tegories	most a	ccurate	ly desci	ribes yo	our current position:
	1 Technician/serviceman (employed by company) 2 Technician/serviceman (employed by manufacturer) 3 Systems builder 4 Other (please explain): 9 No response											
	Have you found that your current job has required robotics skills or knowledge beyond what offers?											
	1 2 9	_ Yes, _ No, _ No r	my cur my cur espons	rrent j rent jo	ob requi ob does	ires sk not rec	ills bey quire sk	ond wha	at OCC and wh	offers at OCC	offers	
	Please tell me whether the following skills are very important, somewhat important, or not at											
	importa	int in p	perforn	ning yo	our curre	ent job	:			VI	SI	NI
	Understa	nding of	f repeatal	oility an	d its impo	rtance				3	2	1
	Understa	nding of	finterfac	ing betw	veen robot	control	ler & peri	pheral co	mponents	3	2	1
	Safety skills when working in close proximity to robot and teaching a program								program	3	2	1
	Understanding of GAS METAL ARC WELDING (GMAW)									3	2	1
	Use of proper joint design									3	2	1
	Use of pr	oper joi				to		naramete	ers	3	2	
			weld po	sitions v	v/ reference	e to cor	rect weld	paramet		3	-	1
	Understar	nding of	-		v/ referend prevent er			77/		3	2	1
	Understar Understar	nding of	sensor u	sage to		ntry into	an active	robot wo				
	Understar Understar Understar	nding of	sensor u	sage to	prevent er	ntry into	an active	robot wo	ork cell	3	2	i
	Understar Understar Understar Knowledg	nding of nding of nding of ge of the	sensor u	sage to reasons stegories	prevent er	ntry into	an active used in au n manufac	robot wo	ork cell	3	2	1
	Understar Understar Understar Knowledg Safety pro	nding of adding of the ge of the occedures	sensor us various three cas involve	sage to reasons stegories	prevent er why sensor	ntry into ors are used in	an active used in au n manufac	robot we tomation cturing sy	ork cell	3 3 3	2 2 2	1 1 1

On a scale of one to ten, with one being not at all related and ten being highly related, to what extent

5.

following areas was excellent, satis		satisfactory, or	whether you b	elieve that the course(s)	
	Excellent	Satisfactory	Unsatisfactory	Did not cover	
a. Robotics safety	3	2	1	8	
b. Mechanical design/adjustments	3	2	1	8	
c. Sensor selection/installation	3	2	1	8	
d. End effector nomenclature/installation	3	2	1	8	
e. Controller architecture	3	2	1	8	
f. Controller/manipulator installation	3	2	1	8	
g. Preventative maintenance	3	2	1	8	
h. PLC installation/diagnostics	3	2	1	8	
i. Troubleshooting/diagnostics	3	2	1	8	
j. Interpretation of schematics	3	2	1	8	
11. Of the skills and knowledge you less would you say have been the most					
12. Are there any other comments you OCC?	would like to	make about yo	our experience	in Robotics courses at	
Thank you very much for your time	e and assistanc	e. We appreci			
Interviewer Signature			_Date:		

Thinking about the training you received at OCC, please tell me if the instruction you received in the

10.

GENDER

Value Label		Value I	Frequency	Percent	Valid Percent	Cum Percent
		0	12	15.4	15.6	15.6
		1	65	83.3	84.4	100.0
			1	1.3	Missing	
		Total	78	100.0	100.0	
Valid cases	77	Missing cas	ses 1			

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
		1	1.3	1.3	1.3
	AIE	1 7	9.0	9.0	10.3
	AMR	3	3.8	3.8	14.1
	WMA	2	2.6	2.6	16.7
	APF	1	1.3	1.3	17.9
	CAD	2	2.6	2.6	20.5
	CIM	3	3.8	3.8	24.4
	CLI	1	1.3	1.3	25.6
	DAT	1	1.3	1.3	26.9
	EDM	3 2 1 2 3 1 1	1.3	1.3	28.2
	ELE	.1.	1.3	1.3	29.5
	ELH	1 3	3.8	3.8	33.3
	ENG		2.6	2.6	35.9
	ETT	2	1.3	1.3	37.2
	GEN		2.6	2.6	39.7
	ITG	2 1	1.3	1.3	41.0
	LIB		2.6	2.6	43.6
	NDS	2 1 1	1.3	1.3	44.9
	RBE	1	1.3	1.3	46.2
	ROB	33	42.3	42.3	88.5
	UND	9	11.5	11.5	100.0
	Total	78	100.0	100.0	

Valid cases 78 Missing cases 0

ETHNIC

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
	1 2 4 5	62 7 5 3 1	79.5 9.0 6.4 3.8 1.3	80.5 9.1 6.5 3.9 Missing	80.5 89.6 96.1 100.0
	Total	78	100.0	100.0	
Valid cases 77 M	issing c	ases 1			
ROB					
Value Label	Value	Frequency	Dercent	Valid Percent	Cum Percent
value habel	varue	rrequency	rercent	rercent	rercenc
	1	39	50.0	50.6	50.6
	1 2 3 4 5 6	15	19.2	19.5	70.1
	3	5	6.4	6.5	76.6
	4	6 2 3	7.7	7.8	84.4
	5	2	2.6	2.6	87.0
	6	3	3.8	3.9	90.9
	7	2	2.6	2.6	93.5
	8	4	5.1	5.2	98.7
	14	1	1.3	1.3	100.0
		1	1.3	Missing	
	Total	78	100.0	100.0	

Valid cases 77 Missing cases 1

DEGREE TO OBTAIN DEGREE OR CERTIFICATE

Value Label	Value F	requency	Percent	Valid Percent	Cum Percent
NO YES	0 1	19 59	24.4 75.6	24.4 75.6	24.4 100.0
	Total	78	100.0	100.0	
Valid cases 78	Missing cas	ses 0			
TRANSFER TO COMPLETE CO	URSES NECESS	ARY FOR T	RANSF		
				Valid	Cum
Value Label	Value F	requency	Percent		
NO	0 1	50 28	64.1 35.9	64.1 35.9	64.1
YES	180				100.0
	Total	78	100.0	100.0	
Valid cases 78	Missing cas	es 0			
CAREER TO PREPARE FOR	A NEW CAREE	R			
Value Label	Value F	requency	Percent	Valid Percent	Cum Percent
NO	0	17	21.8	22.1	22.1
YES	1 9	60 1	76.9 1.3	77.9 Missing	100.0
	Total		100.0	100.0	
Valid cases 77	Missing case	es 1			

PROMOTE TO INCREASE CHANCES FOR RAISE/PROMOTION

Valid cases 76 Missing cases 2

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
NO YES	0 1	39 39	50.0 50.0	50.0	50.0 100.0
	Total	78	100.0	100.0	
Valid cases 78 M	Missing o	ases 0			
EMPLOY TO MEET EMPLOYER	S REQS				
Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
NO	0	49	62.8	63.6	63.6
YES	1 9	28 1	35.9 1.3	36.4 Missing	100.0
	Total	78	100.0	100.0	
Valid cases 77 M	issing c	ases 1			
PERSONAL PERSONAL INTERES	Т				
Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
NO YES	0 1 9	15 61 2	19.2 78.2 2.6	19.7 80.3 Missing	19.7 100.0
	Total	78	100.0	100.0	

EXPECT DID OCC ROB COURSES MEET YOUR EXPECTATIO

Value Label		Value H	Frequency	Percent	Valid Percent	Cum Percent
NO YES		0 1 9	7 70 1	9.0 89.7 1.3	9.1 90.9 Missing	9.1 100.0
		Total	78	100.0	100.0	
Valid cases	77	Missing cas	ses 1			

MAJOR WHAT WAS YOUR MAJOR FIELD OF STUDY AT OC

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
		1	1.3	1.3	1.3
	1	1	1.3	1.3	2.6
	ADM	1	1.3	1.3	3.9
	AMR	1 3	3.8	3.9	7.8
	AMW	1	1.3	1.3	9.1
	ATW	1	1.3	1.3	10.4
	BUS	1	1.3	1.3	11.7
	CAD	1 2	2.6	2.6	14.3
	CIM		1.3	1.3	15.6
	CIS	1 1 2 1 7	1.3	1.3	16.9
	CLI	1	1.3	1.3	18.2
	EGR	2	2.6	2.6	20.8
	ELE	1	1.3	1.3	22.1
	ELT	7	9.0	9.1	31.2
	ENG	4	5.1	5.2	36.4
	GEN	4 3 3 1	3.8	3.9	40.3
	ITG	3	3.8	3.9	44.2
	LIB	1	1.3	1.3	45.5
	ROB	39	50.0	50.6	96.1
	UND	3	3.8	3.9	100.0
	XXX	3 1	1.3	Missing	
	Total	78	100.0	100.0	

Valid cases 77 Missing cases 1

EMPLOYED CURRENTLY ARE YOU EMPLOYED OR OUT OF THE

Value Label		Value E	requency	Percent	Valid Percent	Cum Percent
FULLTIME PARTTIME UNEMPLOYED/SEE UNEMPLOYED/NOT		1 2 3 4 9	59 9 6 3 1	75.6 11.5 7.7 3.8 1.3	76.6 11.7 7.8 3.9 Missing	76.6 88.3 96.1 100.0
		Total	78	100.0	100.0	
Valid cases	77	Missing cas	es 1			

SCALE

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
	1	23	29.5	30.7	30.7
	2	3	3.8	4.0	34.7
	3	2	2.6	2.7	37.3
	4	4	5.1	5.3	42.7
	5	4	5.1	5.3	48.0
	6	3	3.8	4.0	52.0
	7	5	6.4	6.7	58.7
	8	12	15.4	16.0	74.7
	9	4	5.1	5.3	80.0
	10	15	19.2	20.0	100.0
DOES NOT APPLY	88	3	3.8	Missing	
	Total	78	100.0	100.0	

Valid cases 75 Missing cases 3

POSITION WHICH CATEGORY MOST ACCURATELY DESCRIBES

Value Label	Value I	Frequency	Percent	Valid Percent	
TECHNICIAN/SERVICE (TECHNICIAN/SERVICE (SYSTEMS BUILDER OTHER DOES NOT APPLY	1 2 3 4 8	6 11 6 13 42	7.7 14.1 7.7 16.7 53.8	36.1 Missing	47.2 63.9
	Total		100.0		
Valid cases 36	Missing cas	ses 42			
CURRENT CURRENT JOPB	REQUIRE SKILI	LS BEYOND	occ o		
Value Label	Value F	requency	Percent	Valid Percent	Cum Percent
YES NO DOES NOT APPLY	1 2 8	11 25 42	14.1 32.1 53.8		30.6 100.0
	Total		100.0		
Valid cases 36	Missing cas	ses 42			
SKILL1 REPEATABILITY					
Value Label	Value F	requency	Percent	Valid Percent	Cum Percent
NOT AT ALL IMPORTANT SOMEWHAT IMPORTANT VERY IMPORTANT DOES NOT APPLY	1 2 3 8 9	2 5 28 42 1	2.6 6.4 35.9 53.8 1.3	5.7 14.3 80.0 Missing Missing	
	Total	78	100.0	100.0	
Valid cases 35 SKILL2 INTERFACING	Missing cas	es 43			
Value Label	Value F	requency	Percent	Valid Percent	Cum Percent
NOT AT ALL IMPORTANT SOMEWHAT IMPORTANT VERY IMPORTANT DOES NOT APPLY	1 2 3 8 9	2 3 30 42 1	2.6 3.8 38.5 53.8 1.3	5.7 8.6 85.7 Missing Missing	5.7 14.3 100.0
	Total	78	100.0	100.0	
Valid cases 35	Missing cas	es 43			

SKILL3 SAFETY SKILLS

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
NOT AT ALL IMPORTANT SOMEWHAT IMPORTANT VERY IMPORTANT DOES NOT APPLY	1 2 3 8 9	2 1 32 42 1	2.6 1.3 41.0 53.8 1.3	5.7 2.9 91.4 Missing Missing	5.7 8.6 100.0
	Total	78	100.0	100.0	
Valid cases 35	Missing ca	ses 43			
SKILL4 gmaw					
Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
NOT AT ALL IMPORTANT	1	8	10.3	22.9	22.9
SOMEWHAT IMPORTANT VERY IMPORTANT	2	15 12	19.2 15.4	42.9	65.7 100.0
DOES NOT APPLY	8	42	53.8	Missing	100.0
	9	1	1.3	Missing	
	Total	78	100.0	100.0	
Valid cases 35	Missing ca	ses 43			
SKILL5 JOINT DESIGN					
				Valid	Cum
Value Label	Value	Frequency	Percent		Percent
NOT AT ALL IMPORTANT	1	12	15.4	34.3	34.3
SOMEWHAT IMPORTANT	2	12	15.4	34.3	68.6
VERY IMPORTANT	3	11	14.1	31.4	100.0
DOES NOT APPLY	8 9	42 1	53.8	Missing Missing	
	Total	78	100.0	100.0	
Valid cases 35	Missing car	ses 43			

SKILL6 WELD POSITIONS

					1.00
Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
NOT AT ALL IMPORTANT SOMEWHAT IMPORTANT VERY IMPORTANT DOES NOT APPLY	1 2 3 8 9	8 10 17 42 1	10.3 12.8 21.8 53.8 1.3	22.9 28.6 48.6 Missing Missing	22.9 51.4 100.0
	Total	78	100.0	100.0	
Valid cases 35	Missing c	ases 43			
SKILL7 SENSOR USAGE					
				Valid	Cum
Value Label	Value	Frequency	Percent	Percent	Percent
NOT AT ALL IMPORTANT SOMEWHAT IMPORTANT VERY IMPORTANT DOES NOT APPLY	1 2 3 8 9	1 3 31 42 1 78	1.3 3.8 39.7 53.8 1.3	2.9 8.6 88.6 Missing Missing 	2.9 11.4 100.0
Valid cases 35	Missing c	ases 43			
SKILL8 SENSOR UNDERST					
Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
NOT AT ALL IMPORTANT SOMEWHAT IMPORTANT VERY IMPORTANT DOES NOT APPLY	1 2 3 8 9	1 5 28 42 2 	1.3 6.4 35.9 53.8 2.6	2.9 14.7 82.4 Missing Missing 100.0	2.9 17.6 100.0

Valid cases 34 Missing cases 44

SKILL9 SENSOR CATEGORIES

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
NOT AT ALL IMPORTANT SOMEWHAT IMPORTANT VERY IMPORTANT DOES NOT APPLY	1 2 3 8 9	2 9 24 42 1	2.6 11.5 30.8 53.8 1.3	5.7 25.7 68.6 Missing Missing	5.7 31.4 100.0
	Total	78	100.0	100.0	
Valid cases 35	Missing ca	ses 43			
SKILL10 TROUBLESHOOTIN	IG				
Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
NOT AT ALL IMPORTANT SOMEWHAT IMPORTANT VERY IMPORTANT DOES NOT APPLY	1 2 3 8 9	2 5 28 42 1	2.6 6.4 35.9 53.8 1.3	5.7 14.3 80.0 Missing Missing	5.7 20.0 100.0
	Total	78	100.0	100.0	
Valid cases 35	Missing cas	ses 43			
SKILL11 TEST POINTS					
Value Label	Value H	Frequency	Percent	Valid Percent	Cum Percent
NOT AT ALL IMPORTANT SOMEWHAT IMPORTANT VERY IMPORTANT DOES NOT APPLY	1 2 3 8 9	3 14 19 41 1	3.8 17.9 24.4 52.6 1.3	8.3 38.9 52.8 Missing Missing	8.3 47.2 100.0
	10001	, ,	100.0	100.0	

Valid cases 36 Missing cases 42

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent	
NOT AT ALL IMPORTANT SOMEWHAT IMPORTANT VERY IMPORTANT	1 2 3 88	5 4 26 1	6.4 5.1 33.3 1.3	13.9 11.1 72.2 2.8	13.9 25.0 97.2	
DOES NOT APPLY	8	41 1	52.6 1.3		100.0	
	Total	78	100.0	100.0		
Valid cases 36	Missing ca	ses 42				
TRAIN1 ROBOT SAFETY						
				Valid	Cum	
Value Label	Value	Frequency	Percent	Percent	Percent	
SATISFACTORY EXCELLENT DID NOT COVER/DOES N	2 3 8 82	18 55 4 1	23.1 70.5 5.1 1.3	23.1 70.5 5.1 1.3	23.1 93.6 98.7 100.0	
	Total	78	100.0	100.0		
Valid cases 78	Missing ca	ses 0				
TRAIN2 MECHANICAL DESIGN						

Value Label		Value I	Frequency	Percent	Valid Percent	Cum Percent
UNSATISFACTORY		1	1 4	5.1	5.2	5.2
SATISFACTORY		2	22/1	28.2	28.6	33.8
EXCELLENT		3	19"	24.4	24.7	58.4
DID NOT COVER/	DOES N	8	32	41.0	41.6	100.0
		9	1	1.3	Missing	7
		Total	78	100.0	100.0	
Valid cases	77	Missing cas	ses 1		, o	

TRAIN3 SENSOR SELECTION

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent	
UNSATISFACTORY	1	4	5.1	5.1	5.1	
SATISFACTORY EXCELLENT	2	25 13	32.1	32.1 16.7	37.2 53.8	
DID NOT COVER/DOES N	8	36		46.2	100.0	
	Total	78	100.0	100.0		
Valid cases 78	Missing o	ases 0				
TRAIN4 END EFFECTOR N	IOMENCLATUR	E				
Walue Tabal	Walna	Engalonau	Daugant	Valid	Cum	
Value Label	Value	Frequency	Percent	Percent	Percent	
UNSATISFACTORY	1	5	6.4	6.4	6.4	
SATISFACTORY	2	22	28.2	28.2	34.6	
EXCELLENT	3	26	33.3	33.3	67.9	
DID NOT COVER/DOES N	8	25	32.1	32.1	100.0	
	Total	78	100.0	100.0		
Valid cases 78 Missing cases 0						
TRAIN5 CONTROLLER ARC	HITECTURE					
				Valid	Cum	
Value Label	Value	Frequency	Percent		Percent	
		_				
UNSATISFACTORY	1 2	2 25	2.6 32.1	2.6	2.6	
SATIS FACTORY EXCELLENT	3	27		32.1	34.6 69.2	
DID NOT COVER/DOES N	8	24	30.8	30.8	100.0	
					100.0	
	Total	78	100.0	100.0		

Valid cases 78 Missing cases 0

TRAIN6 MANIPULATOR INSTALLATION

Value Label	Value	Frequency	Percent	Valid Percent	Cum
value habei	varue	rrequency	rercent	rercenc	rercent
UNSATISFACTORY	1	2	2.6	2.6	2.6
SATISFACTORY	2	19	24.4	24.7	27.3
EXCELLENT	3	16	20.5	20.8	48.1
DID NOT COVER/DOES N	8	40 1	51.3 1.3	51.9 Missing	100.0
	9		1.3	missing	
	Total	78	100.0	100.0	
Valid cases 77	Missing ca	ses 1			
TRAIN7 PREVENTATIVE N	AINTENANCE				
				Valid	Cum
Value Label	Value	Frequency	Percent	500 47 (5) 7074 (5774 (7755)	100000000000000000000000000000000000000
value habel	value	requency	rereene	rereene	rerecite
UNSATISFACTORY	1	2	2.6	2.6	2.6
SATISFACTORY	2	20	25.6	25.6	28.2
EXCELLENT	3	21	26.9	26.9	55.1
DID NOT COVER/DOES N	8	35	44.9	44.9	100.0
	Total	78	100.0	100.0	47 430
				1000 E 20 E 2 P 20 E 2	
Valid cases 78	Missing ca:	ses 0			
TRAIN8 PLC INSTALLATI	ON				
				*****	~~~
Value Label	Value I	requency	Dorgont	Valid Percent	Cum
value habei	value i	requency	rercent	rercent	rercent
UNSATISFACTORY	1	2	2.6	2.6	2.6
SATISFACTORY	2	20	25.6	25.6	28.2
EXCELLENT	3	17.		21.8	50.0
DID NOT COVER/DOES N	8	39 3.	50.0	-50.0	100.0
	m . L . 3	70	100 0	100.0	
	Total	78	100.0	100.0	

Valid cases 78 Missing cases 0

TRAIN9 TROUBLESHOOTING

Value Label	Value I	Frequency	Percent	Valid Percent	Cum Percent
UNSATISFACTORY SATISFACTORY EXCELLENT DID NOT COVER/DOES N	1 2 3 8 9	1 21 21 34 1	1.3 26.9 26.9 43.6 1.3	1.3 27.3 27.3 44.2 Missing	1.3 28.6 55.8 100.0
	Total	78	100.0	100.0	
Valid cases 77	Missing cas	ses 1			

TRAIN10 SCHEMATICS

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
UNSATISFACTORY SATISFACTORY	1 2	3 20	3.8	'3.8 25.6	3.8
EXCELLENT DID NOT COVER/DOES	N 8	15	19.2	19.2 51.3	48.7 100.0
	Total	78	100.0	100.0	in the second
Valid cases 78	Missing o	ases 0			