

MIDOCEAN University

RESEARCH ON

Questionnaire to Measure Effectiveness of Operator Individual Development Plan (IDP)

For ~~research~~ Research on

Title: Impact of Operator Development on Improving Overall Equipment Efficiency (OEE): Total Productive Maintenance TPM (Autonomous Maintenance) in one Petrochemical Plant (Methanol Producer) at Industrial Jubail City in KSA

QUESTIONNAIRE BOOKLET

Supervisor Dr.Walid Seddik
Master Candidate Mr.Sari Binfulaih

Dear ~~Respondent~~Participant,

I am a Master's candidate in Management at MIDOCEAN University, and I am currently conducting a study on the impact of operator development on improving overall equipment efficiency (OEE) in a petrochemical plant in Jubail.

I would be grateful if you could take the time to answer this questionnaire. Your cooperation is essential to the success of my study, and I assure you that all of your responses will be used for research purposes and kept confidential.

Thank you in advance for your participation in this study. If you have any questions, please do not hesitate to contact me at (saryy6@hotmail.com) or my supervisor, Dr.Walid Seddik at (Walid@esu.ac.ae).

Best regards,

Sari Bifulaih~~Dear Respondent,~~

~~I am a Master's candidate (Management) at the MIDOCEAN University. Currently, I am conducting a to examine the This study aims study titled " Impact of Operator Development on Improving Overall Equipment Efficiency (OEE): Total Productive Maintenance TPM (Autonomous Maintenance) in a Petrochemical Plant (Methanol Producer) at Industrial Jubail City in KSA,~~

~~I would like to request your cooperation to answer this questionnaire. Any information obtained will be kept confidential and only used for academic purposes. Your cooperation is highly appreciated.~~

~~Thank you in advance for agreeing to participate in this study. If you have any questions, please do not hesitate to contact my honorable supervisor, Associate Supervisor Dr.Walid Seddik or myself Mr.Sari Bifulaih~~

Supervisor Dr.Walid Seddik : Walid@esu.ac.ae
Master Candidate Mr.Sari Bifulaih: saryy6@hotmail.com

Section A:

A: Demographic Characteristics

Please tick (✓) the appropriate choice

1- **Gender:** Male ☐ Female ☐

2- **Age:** 20 - 30 years old ☐ 31 - 39 years old ☐
 40 - 49 years old ☐ 50 years old and over ☐

3- **Years of Experience:** 5 years & less ☐ 5-10 years ☐
11-20 years ☐ 21 years & above ☐

Section B:

Please indicate your degree of agreement or disagreement with the following statements, so please sign (□) for the choice that reflects your opinion by choosing one of the five alternatives.

Section A: The following set of statements measures the correlation between Operation Department objectives and Autonomous maintenance aim objectives						
Item No		1	2	3	4	5
	I. What is the base-basis to selectfor selecting your learning assignments	Strongly Disagree	Disagree	Natural	Agree	Strongly Agree
ASTI1	Gap analysis for knowledge requirement-needs by Superior and subordinates					
ASTI2	Analysisize and sSelection by sSuperior .					
	Analysis Analyze-and selection Select-by employee.					
	Copy from colleaogues' training plans.					
	II. The correlation between my Ddepartment objectives and my learning assigned can be described as:	1	2	3	4	5
		Strongly Disagree	Disagree	Natural	Agree	Strongly Agree
ASRII1	Achieving Operation Ddepartment objectives by enhancing operator skills for equipment maintenance.					
ASRII2	Achieving Operation Ddepartment objectives by enhancing operator skills for equipment operation.					
	Achieving Operation Ddepartment objectives by enhancing operator skills for equipment failure root cause analysis.					

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	No clear correlation between my <u>D</u> epartment objectives and my learning assignments.					

III. How often does your <u>D</u> epartment review your progress of learning assignments?		1	2	3	4	5
		Strongly Disagree	Disagree	Natural	Agree	Strongly Agree
ASRIII1	Monthly.					
ASRIII2	Quarterly.					
	Semi-yearly.					
	Yearly.					
	Never.					

IV. <u>H</u> ow do you ensure and confirm that knowledge & <u>and</u> benefit <u>have</u> been gained by learning assignments?		1	2	3	4	5
		Strongly Disagree	Disagree	Natural	Agree	Strongly Agree
ASAIV1	By experiment.					
ASAIV2	By shar <u>ing</u> e & <u>and</u> deliver <u>ing</u> new knowledge to other.					
	By present <u>ing</u> the benefits to my Superior.					
	By discuss <u>ing</u> it with workmates.					
	I don't know how to ensure that.					

V. Your superior treat your learning assignments progress implementation by		1	2	3	4	5
		Strongly Disagree	Disagree	Natural	Agree	Strongly Agree
ASEV1	Continuous coaching and mentoring.					

ASEV2	Assigning an expert to mentor for mentoring you.					
	Giving advices reference for you, like tools, methods, experiments etc.					
	Delegating decision making to you.					
VI. Has the learning plan been changed / amended before?		1 Strongly Disagree	2 Disagree	3 Natural	4 Agree	5 Strongly Agree
ASEV1	Usually it been improved after Reviewed with my superior.					
ASEV2	Reviewed with my superior but no change it is implemented required					
	Usually Set plans for review are set but review not implemented.					
	Opportunities for improvement occurred with events (like shutdown , project ,transfer ...) but they are not used for this purpose. not been considered					
VII. Do you have permission to do maintenance work for equipment that you operate?		1 Strongly Disagree	2 Disagree	3 Natural	4 Agree	5 Strongly Agree
ASAIV1	I can get permission easily.					
ASAIV2	Based on urgency situation of equipment.					
	I can give recommendation for maintenance staff.					
	I have permission only to describe the challenge for operating equipments.					
VIII. Do you have access to get information about equipment strategy that you operate?		1 Strongly Disagree	2 Disagree	3 Natural	4 Agree	5 Strongly Agree

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ASAIV1	I can <u>get</u> access easily.					
ASAIV2	Based on urgency situation of equipment.					
IX. Do you have access to <u>get</u> information about equipment maintenance work instruction		1 Strongly Disagree	2 Disagree	3 Natural	4 Agree	5 Strongly Agree
ASAIV1	I can access easily.					
ASAIV2	based <u>Based</u> on level of authority.					
Section B: <u>The</u> following set of statements measures <u>p</u> ossibility for implementing the acquired new skills and Operator wellness for implementation						
Item No	I. My learning assignments is <u>are</u> performed:	1 Strongly Disagree	2 Disagree	3 Natural	4 Aeree	5 Strongly Agree
BSAI1	B ecause I have the opportunity to increase my knowledge and develop new skills to my career path.					
BSAI2	B ecause my company invests in developing my potentials to ensure the my readiness for next career path.					
	B ecause it facilitates <u>s</u> my routine work activity.					
	b ecause I <u>have</u> been monitored by my Superior					

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	Only by-to close it in <u>the</u> system <u>as completed</u>					
		1	2	3	4	5
	II. How often <u>do</u> you have <u>the</u> opportunity to implement what you <u>have already</u> learned from learning assignments?	Strongly Disagree	Disagree	Natural	Agree	Strongly Agree
BSRII1	Usually I have <u>the</u> opportunity to implement <u>what I have learned</u> .					
BSRII2	Some-time I have <u>the</u> opportunity to implement <u>what I have learned</u> .					
	Usually based on event occurrence <u>nced</u> .					
	No opportunity to implement <u>what I have learned</u>					
		1	2	3	4	5
	III. Do you have <u>spare</u> time for development?	Strongly Disagree	Disagree	Natural	Agree	Strongly Agree
BSRII1	My development time <u>allows me to can be managed to be</u> accomplish <u>myed learning assingments with</u> quality /right way.					
BSRII2	<u>I have</u> My development time <u>that allows to can be managed to be</u> complete <u>my learning assingmentsd</u> .					
	I have time to complete some of my learning assignments.					
	Due to working load , <u>I do not have</u> My development -time to <u>cannot be managed and</u> accomplish <u>my learning assingments withed in</u> quality and right way.					
	IV. How <u>your conviction</u><u>do you believe</u> that learning assignments <u>approach</u> will add value to your career path?	1 Strongly Disagree	2 Disagree	3 Natural	4 Agree	5 Strongly Agree
BEIV1	One of the main factors in my career path advancement.					
BEIV2	<u>S</u> ome-time it add <u>s</u> value to my career path advancement.					
	<u>My</u> my company <u>does</u> not give value for learning assignments while filling career paths.					

	<u>Does</u> not add value.					
V. What majors would you like to increase <u>improve</u> your skills and knowledge in? ?		1	2	3	4	5
		Strongly Disagree	Disagree	Natural	Agree	Strongly Agree
BSSV1	<u>Operation.</u>					
BSSV2	<u>Maintenance.</u>					
	<u>Failure ANALYSIS<u>ANALYSIS.</u></u>					
	<u>Planning</u>					
	<u>Others.</u> <u>Operation</u>					
VI. did <u>Do</u> you read <u>m</u> M Maintenance work instruction		1	2	3	4	5
		Strongly Disagree	Disagree	Natural	Agree	Strongly Agree
BSSV1	<u>Yes, I do.</u> I was read					

SECTION C: OPEN-ENDED QUESTIONS

C1) Please provide ANY other comments regarding this study.

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C2) Please provide any comments regarding any aspect that appears to be LACKING in this study.

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Gratitude:

Gratitude:

We appreciate you for sparing your time to fill out the survey. Your involvement means a lot to us and we highly value it. The information you shared is significant to our analysis and Once again, we are very grateful for your contribution.

Sincerely

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Master Candidate Mr.Sari Binfulaih (Saryy6@hotmail.com)

University Name MIDOCEAN University

Reviewed by:

Rashed Alsugaihi

Head of Translation Section

Saudi Central Bank

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