

MIDOCEAN University

RESEARCH ON

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

**For Research Titled: 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 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 regard Sari Binfulaih

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 objectives						
Item No		1 Strongly Disagree	2 Disagree	3 Natural	4 Agree	5 Strongly Agree
	I. What is the basis for selecting your learning assignments					
ASTI1	Gap analysis for knowledge needs by superior and subordinates					
ASTI2	Analysis and selection by superior .					
ASTI3	Analysis and selection by employee.					
ASTI4	Copy from colleagues' training plans.					
	II. The correlation between my Department objectives and my learning assigned can be described as:	1 Strongly Disagree	2 Disagree	3 Natural	4 Agree	5 Strongly Agree
ASTII1	Achieving Operation Department objectives by enhancing operator skills for equipment maintenance.					
ASTII2	Achieving Operation Department objectives by enhancing operator skills for equipment operation.					
ASTII3	Achieving Operation Department objectives by enhancing operator skills for equipment failure root cause analysis.					
ASTII4	No clear correlation between my Department objectives and my learning assignments.					

		1 Strongly Disagree	2 Disagree	3 Natural	4 Agree	5 Strongly Agree
	III. How often does your Department review your progress of learning assignments?					
ASTIII1	Monthly.					
ASTIII2	Quarterly.					
ASTIII3	Semi-yearly.					
ASTIII4	Yearly.					
ASTIII5	Never.					

IV. How do you ensure and confirm that knowledge and benefit have been gained by learning assignments?		1	2	3	4	5
		Strongly Disagree	Disagree	Natural	Agree	Strongly Agree
ASTIV1	By experiment.					
ASTIV2	By sharing and delivering new knowledge to other.					
ASTIV3	By presenting the benefits to my Superior.					
ASTIV4	By discussing it with workmates.					
ASTIV5	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
ASTV1	Continuous coaching and mentoring.					
ASTV2	Assigning an expert to mentor you.					
ASTV3	Giving advices reference for you, like tools, methods, experiments etc.					
ASTV4	Delegating decision making to you.					
VI. Has the learning plan been changed /improved before?		1	2	3	4	5
		Strongly Disagree	Disagree	Natural	Agree	Strongly Agree
ASTVI1	Usually improved after review with my superior.					
ASTVI2	Reviewed with my superior but no change is implmented					
ASTVI3	Usually plans for review are set but not implemented.					
ASTVI4	Opportunities for improvement occurred with events (like shutdown , project ,transfer ...) but they are not used for this purpose.					

VII. Do you have permission to do maintenance work for equipment that you operate?		1	2	3	4	5
		Strongly Disagree	Disagree	Natural	Agree	Strongly Agree
ASTVII1	I can get permission easily.					
ASTVII2	Based on urgency situation of equipment.					
ASTVII3	I can give recommendation for maintenance staff.					
ASTVII4	I have permission only to describe the challenge for operating equipment's.					
VIII. Do you have access to information about equipment strategy that you operate		1	2	3	4	5
		Strongly Disagree	Disagree	Natural	Agree	Strongly Agree
ASTVIII1	I can get access easily.					
ASTVIII2	Based on urgency situation of equipment.					
IX. Do you have access to information about equipment maintenance work instruction		1	2	3	4	5
		Strongly Disagree	Disagree	Natural	Agree	Strongly Agree
ASTIX1	I can access easily.					
ASTIX2	Based on level of authority .					

Section B: The following set of statements measures possibility for implementing the acquired new skills and Operator wellness for implementation						
Item No	I. My learning assignments are performed:	1 Strongly Disagree	2 Disagree	3 Natural	4 Agree	5 Strongly Agree
BSTI1	Because I have the opportunity to increase my knowledge and develop new skills to my career path.					
BSTI2	Because my company invests in developing my potentials to ensure my readiness for next career path.					
BSTI2	Because it facilitates my routine work activity.					
BSTI2	because I have been monitored by my Superior					
BSTI2	Only to close it in the system as completed					
II. How often do you have the opportunity to implement what you have learned from learning assignments?		1 Strongly Disagree	2 Disagree	3 Natural	4 Agree	5 Strongly Agree
BSTII1	Usually I have the opportunity to implement what I have learned.					
BSTII2	Sometime I have the opportunity to implement what I have learned.					
BSTII3	Usually based on event occurrence.					
BSTII4	No opportunity to implement what I have learned					

III. Do you have spare time for development?		1	2	3	4	5
		Strongly Disagree	Disagree	Natural	Agree	Strongly Agree
BSTIII1	My development time allows me to accomplish my learning assignments with quality /right way.					
BSTIII2	I have time that allows to complete my learning assignments.					
BSTIII3	I have time to complete some of my learning assignments.					
BSTIII4	Due to working load , I do not have time to accomplish my learning assignments with quality and right way.					
IV. How do you believe that learning assignments will add value to your career path?		1	2	3	4	5
		Strongly Disagree	Disagree	Natural	Agree	Strongly Agree
BSTIV1	One of the main factors in my career path advancement.					
BSTIV2	Sometime it adds value to my career path advancement.					
BSTIV3	My company does not give value for learning assignments while filling career paths.					
BSTIV4	Does not add value.					
V. What majors would you like to improve your skills and knowledge in?		1	2	3	4	5
		Strongly Disagree	Disagree	Natural	Agree	Strongly Agree
BSTV1	Operation.					
BSTV2	Maintenance.					
BSTV3	Failure analysis.					
BSTV4	Planning					
BSTV5	Others.					
VI. Do you read maintenance work instruction		1	2	3	4	5
		Strongly Disagree	Disagree	Natural	Agree	Strongly Agree
BSTVI1	Yes, I do.					

SECTION C: OPEN-ENDED QUESTIONS

C1) Please provide ANY other comments regarding this study.

.....

.....

.....

.....

.....

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

.....

.....

.....

.....

.....

.....

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

.....

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

University Name MIDOCEAN University

