

# INSTITUTE OF AERONAUTICAL ENGINEERING (AUTONOMOUS)

Dundigal, Hyderabad-500 043

## MASTER OF BUSINESS ADMINISTRATION

## **ASSIGNMENT**

Course Name	OPERATIONS MANAGEMENT
<b>Course Code</b>	CMB0013
Class	MBA II SEMESTER
Branch	MBA
Year	2017 – 2018
<b>Course Faculty</b>	Ms.Azara, Assistant Professor, Department of MBA

#### **COURSE OBJECTIVES:**

#### The course should enable the students to:

I	Understand the strategic role of operations management in creating and enhancing a firm's competitive advantages.
II	Analyze the key concepts, issues and different types of techniques of Operations Management in both
	manufacturing and service organizations.
III	Know about the interdependence of the operations function with the other key functional areas of a
	firm.
IV	Apply analytical skills and problem-solving tools to the analysis of the operations problems.

## **ASSIGNMENT-I**

S. No	Question	Blooms Taxonomy Level	Course Outcome						
	UNIT-I								
1	<b>Define</b> operations management and explain the evolution of production and operations management?	Understand	CMB0013:02						
2	What do you mean by product life cycle and process life cycle? explain the relationship between them	Analyze	CMB0013:03						
3	What are the various technologies used in processes of operations management in detail?	Remember	CMB0013:03						
4	<b>Discuss</b> the interface between operation function and other functional areas?	Remember	CMB0013:02						
5	<b>Distinguish</b> between operations management and production management?	Understand	CMB0013:02						
S. No	Ouestion	Blooms Taxonomy	Course						
5.110	Question	Level	Outcome						
	UNIT – II								
1	<b>Explain</b> about the plant location ?discuss the need for plant location what are the steps involved in selecting a location	Remember	CMB0013:04						

2	Find the	seque	nce th	nat mini	imizes tl	ne total	elaps	ed tir	ne			
	require t											
	below, c	alcula	te the	total el	lapsed ti	me also	)					
	mac	1	2	3	4	5	6	7	7	8	Analyze	CMB0013:06
	hine M1	14	10	10	13	12	11	ç	)	9	•	
	M2	11	14	10	9	14	14	7		10		
	M3	9	8	10	11	12	7	8		9		
3	In a bate	ch pro	oducti	on five	e iobs A	BCD	and	E are	rea	uired		
	to be pro											
	the optin											
	Process	Jo	b A	Job B	Job	C Jo	ob D	Jol	E		Analyza	CMD0012.06
	time in										Analyze	CMB0013:06
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	painting	3	3	2	4		5	7	7	-		
4	Define r	nainte	nance	systen	ns and E	xplain	vario	us tyj	peso	of	Analyze	CMB0013:05
	maintena										Anaryze	CWID0013.03
5	Find the the follo			ne optin	ing							
	machi			Job2	Job3	Job4	Jo	ob5	Jo	b6		
	nes A	1	.5	17	13	14	1	18	1	.5	Analyze	CMB0013:04
	B	12		13	9	10		11		2		
	C	11		16	15	13		12		2		
				10	10		NIT –					
1	Explain	the ob	jectiv	es, fun	ctions, a				qua	lity	Undonstand	CMB0013:07
	control?										Understand	CMB0015:07
2	Explain and obje					explain	its ch	aract	erist	ics	Remember	CMB0013:08
3	Write a of sampl	bout t	he aco	ceptanc	e sampl				rent	types	Understand	CMB0013:08
4	The follo								job.			
	Determin								J			
	San	ıple n	0	Mean X Range		e R						
		1			3.25		0.0					
		2			3.37		0.0				Analyze	CMB0013:09
		3			3.35		0.11					
		4			3.30		0.1					
		5			34		0.1					
5	Describe		t the *			nd ite o			Writ	e the		
5	steps inv			nemou	study al	10 115 0	ojecu	ves:	* ¥ 11l	C tile	Remember	CMB0013:07
	веерь піч	51 / 04	•		A CC	IGNI	MEN	тп	ſ			

### **ASSIGNMENT-II**

S. No	Question	Blooms Taxonomy Level	Course Outcome
	UNIT – III		
1	<b>Discuss</b> the various control charts for attributes? Explain them briefly?	Remember	CMB0013:08
2	<b>Explain</b> about the control charts with graphical representation and explain its objectives	Understand	CMB0013:09
3	What is work study? Explain various techniques of work study?	Understand	CMB0013:09

4													
	The following table gives the number of defects in a casting used to making crank case of diesel engine. Construct												
											ıt		
	appropriate control chart with control limits and comment on the process  Analyze								CMB0013:09				
	c.no	1	2	3	4	5	6	7	8	9	10	·	
	No of	15	11	25	10	12	20	15	10	17	13		
	defects												
	I								T – I			I	T
1	What do you mean by make or buy decision? Discuss the pros and cons of this decision?  Remember										CMB0013:10		
2	Explain					produ	action	and o	narat	ione			
2	managei				101 111	prodi	uction	anu (	эрстас	10118		Analyze	CMB0013:10
3	What ar				of M	RP? I	Explai	in its a	advan	tages	and	A 1	CD (D0012.11
	disadvar						1			υ		Analyze	CMB0013:11
4	Explain		erent	types	of tec	chniqu	es for	prior	itizat	ion of	•	Remember	CMB0013:12
-	material		1	-4 - 41-		P		•	1: 0	<b>XX</b> 71		2101110111001	G1/120016/12
5	How do	•			-	orma	nce of	supp	liers?	wnai	are	Understand	CMB0013:12
	the goan	3 O1 V	CHao	1 Iatii	ığ.		1	UNIT	- V				
												Blooms	Course
S. No					Qu	estion	l					Taxonomy Level	Outcome
1	What is						are tl	he req	uirem	ents f	for	Remember	CMB0013:13
	effective											Kemember	CWID0013.13
2	Explain									ırıous		Understand	CMB0013:13
3	methods A compa									uring			
3	process.										n as		
	fallows				1					8-11-			
	items		quar	ntity	Ur	nit cos	st						
	1		9000	)	10								
	2		300		75								
	3		5400		21								
	5		3800 1240		90							Remember	CMB0013:15
	6		90	<i>J</i> 0		.00							
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	8		2200	00	2								
	9		750		17	5							
	10		1000		25	0							
	11		7600		75								
	12		1000		4								
4	A factor	•		•							ch		
	costs rs.125 per unit placing each order costs rs.25 and carrying costs is 6% per year of average inventory. i)find out the economic order quantity. ii)how many orders are to be placed in a year iii)what is the total inventory cost for year including the cost												
										Remember	CMB0013:15		
											CMB0013:13		
									cost				
		of material											
5		What are the various costs involved in inventory managem								ment	Remember	CMB0013:14	
	?												

Prepared by: Ms. Azara, Assistant Professor, Department of MBA

Date:15/12/2017