calculating OEE - SAMPLE CALCULATION:

In a 480 minute shift :

On a machine rated at 100 products output per minute Maximum output = 480 mins x 100 units = 48000 units

Shift info:	Output (Good Production)	= 32000 units	
	Speed	= 98 units per minute	
	Planned downtime	= 82 mins	
	Bottleneck loss due to B/down	= 30 mins	
	Rejects (in process)	= 1255 in 8 hr shift	

Output (OEE) = 32000 / 48000 = 66.7%

480mins x 66.67% = 320 mins, therefore Total Loss = 160 mins

SIX LOSS CALCULATIONS:

Speed loss

Max theoretical units possible at actual speed = 98 x 480 = 47040

= (32000/47040) - (32000/48000) =

68.03% - 66.67% = 1.36%

480 x 1.36%	= 6.53 mins / 480	= (1.36%)
Planned downtime	= 82 mins / 480	= (17.08%)
Breakdown	= 30 mins / 480	= (6.25%)
<u>Rejects</u> = 1255 / 98 (actual running speed)	= 12.81 mins / 480	= (2.67%)
<u>Minor stops</u> = 480-320-6.53-82-30-12.81	= 28.66 mins / 480	= (5.97%)

OEE CALCULATIONS	S: (Time in Minute	s)		
Production time	= 480 Time l	ess availability loss	s = 368Time less performa	nce loss = 333
Availability Loss	Performance Loss		Quality Loss	
Planned downtime =82	Speed loss		=6.53Rejects on start up	=0
Breakdowns	=30Minor stops	s (<5mins) =28.66	Rejects in process	=12.81
Total	=112Total	=35.19	Total	=12.81
AVAILABILITY	PERFOR	MANCE	QUALITY	OEE
(368/480) = 77%	(333/368))=90%	(320/333) = 96%	= 0.77 × 0.9 × 0.96
			OEE	= 66.7%

Total loss

= 160 mins

= (33.33%)