
CMRP Formulas – Complete Guide

1.1 RATIO OF REPLACEMENT ASSET VALUE (RAV) TO CRAFT-WAGE HEADCOUNT - ✓ $\text{RAV (\$)} / \text{Craft-Wage Headcount}$

1.3 MAINTENANCE UNIT COST - ✓ $\text{Total Maintenance Cost} / \text{Standard Units Produced}$

1.4 STOCKED MAINTENANCE, REPAIR AND OPERATING MATERIALS (MRO) INVENTORY VALUE AS A PERCENT OF REPLACEMENT ASSET VALUE (RAV) - ✓ $[\text{Stocked MRO Value (\$)} \times 100] / \text{Replacement Asset Value (\$)}$

1.5 TOTAL MAINTENANCE COST AS A PERCENT OF REPLACEMENT ASSET VALUE (RAV) - ✓ $[\text{Total Maintenance Cost (\$)} \times 100] / \text{Replacement Asset Value (\$)}$

2.1.1 OVERALL EQUIPMENT EFFECTIVENESS (OEE) - ✓ $\text{Availability (\%)} \times \text{Performance Efficiency (\%)} \times \text{Quality Rate (\%)}$

2.1.1 (OEE) - Availability - ✓ $(\text{Uptime Hrs} \times 100) / (\text{Total Available Time Hrs} - \text{Idle Time Hrs})$

2.1.1 (OEE) - Uptime - ✓ $\text{Total Available Time Hrs} - [\text{Idle Time Hrs} + \text{Total Downtime Hrs}]$

2.1.1 (OEE) - Total Downtime - ✓ $(\text{Hrs}) = \text{Scheduled Downtime Hrs} + \text{Unscheduled Downtime Hrs}$

2.1.1 (OEE) - Performance Efficiency - ✓ $(\%) = [\text{Actual Production Rate (units per hour)} / \text{Best Production Rate (units per hour)}] \times 100$

2.1.1 (OEE) - Quality Rate - ✓ $(\%) = [(\text{Total Units Produced} - \text{Defective Units Produced}) / \text{Total Units Produced}] \times 100$

2.1.2 TOTAL EFFECTIVE EQUIPMENT PERFORMANCE (TEEP) - ✓ $\text{TEEP (\%)} = \text{Utilization Time \%} \times \text{Availability \%} \times \text{Performance Efficiency \%} \times \text{Quality Rate \%}$

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