

## Mission Impact

How will failure affect the facility's ability to meet mission requirements?

- 1 = < 10%
- 2 = 10% - 14%
- 3 = 15% - 19%
- 4 = 20% - 29%
- 5 = 30% - 39%
- 5 = 40% - 49%
- 6 = 50% - 59%
- 7 = 60% - 69%
- 8 = 70% - 79%
- 9 = 80% - 89%
- 10 = >90%

## Safety Impact

Will failure have the potential to cause an accident that results in injury or death?

- 0 = No potential
- 10 = Potential for injury\*

*\*Each organization defines an impact scale for their operations.*

## Environmental Impact

Will a failure result in or have the potential to result in a reportable event?

- 0 = No potential
- 10 = Potential for reportable incident\*

*\*Each organization defines an impact scale for their operations.*

## Single Point Failure

Is there a way to minimize loss caused by failure?

- 1 = Automatic fail-over
- 2 = Redundant train (manual switch-over)
- 2 = Easy work-around available
- 3 = Inconvenient
- 4 = Moderate work-around
- 5 = Significant
- 6 = Difficult
- 7 = Very difficult, but possible
- 8 = Possible, but impacts capacity or quality
- 9 = Possible, but severely impacts capacity or quality
- 10 = No work-around possible

## Preventive Maintenance History

Annual cost for preventive maintenance

- 1 = <\$1,000
- 2 = \$1,000 - \$1,999
- 3 = \$2,000 - \$2,999
- 4 = \$3,000 - \$3,999
- 5 = \$4,000 - \$4,999
- 6 = \$5,000 - \$5,999
- 7 = \$6,000 - \$6,999
- 8 = \$7,000 - \$7,999
- 9 = \$8,000 - \$8,999
- 10 = >\$9,000

## Corrective Maintenance History

Use total maintenance cost to determine the average cost/year for each asset.

- 1 = <\$1000
- 2 = \$1,000 - \$3,999
- 3 = \$4,000 - \$7,999
- 4 = \$8,000 - \$11,999
- 5 = \$12,000 - \$14,999
- 6 = \$15,000 - \$18,999
- 7 = \$19,000 - \$21,999
- 8 = \$22,000 - \$25,999
- 9 = \$26,000 - \$29,999
- 10 = >\$30,000

## Reliability

Use historical data to determine the number of breakdowns or number and frequency of breakdowns and/or emergencies for this asset.

- 1 = No breakdowns/corrective/emergency activity
- 2 = 1 breakdown/emergency every 7-9 years
- 3 = 1 breakdown/emergency every 4-6 years
- 4 = 1 breakdown/emergency every 2-3 years
- 5 = 1 breakdown/emergency each year (1/year)
- 6 = 1 breakdown/emergency every six months (2/year)
- 7 = 1 breakdown/emergency per quarter (4/year)
- 8 = 1 breakdown/emergency per month (12/year)
- 9 = 1 breakdown/emergency per week (52/year)
- 10 = >2 breakdowns/emergencies per week

### Spares Lead Time

How long does it take to order and receive replacement parts for this asset?

- 1 = In stock and readily available
- 2 = <1 day
- 3 = 1 day
- 4 = 1 week or less
- 5 = 1 - 6 weeks
- 6 = 6 - 16 weeks
- 7 = 16 - 20 weeks
- 8 = 21 - 26 weeks
- 9 = >26 weeks
- 10 = Obsolete, no longer available

### Asset Replacement Value

Estimated cost to replace asset, including installation

- 1 = <\$1,000
- 1 = \$1,000 - \$2,999
- 2 = \$3,000 - \$5,999
- 3 = \$6,000 - \$9,999
- 4 = \$10,000 - \$19,999
- 5 = \$20,000 - \$39,999
- 6 = \$40,000 - \$59,999
- 7 = \$60,000 - \$79,999
- 8 = \$80,000 - \$99,999
- 9 = \$100,000 - \$249,999
- 10 = >\$250,000

### Planned Utilization

How often will the asset be required to support mission or business plan? Expressed as percentage of full utilization (i.e. 8760 hours/year).

- 1 = <10%
- 2 = 10% - 19%
- 3 = 20% - 29%
- 4 = 30% - 39%
- 5 = 40% - 49%
- 6 = 50% - 59%
- 7 = 60% - 69%
- 8 = 70% - 79%
- 9 = 80% - 89%
- 10 = >90%

### Decommissioning

When the asset has reached the end of its useful life, what will it cost to decommission it?

- 1 = <\$5,000
- 2 = \$5,000 - \$9,999
- 2 = \$10,000 - \$19,999
- 3 = \$20,000 - \$29,999
- 4 = \$30,000 - \$39,999
- 5 = \$40,000 - \$49,999
- 6 = \$50,000 - \$59,999
- 7 = \$60,000 - \$69,999
- 8 = \$70,000 - \$79,999
- 9 = \$80,000 - \$89,999
- 10 = >\$90,000

### Raw Value

The sum of the 11 values, divided by the number of criteria counted; the value will be between 1-10.

### Criticality Ranking

Determine a multiplier that will raise the asset with the highest raw value to 100. Apply that multiplier to all assets.

Example: Assets with raw values of 40, 60 and 80 have the following Criticality Rankings:

Raw Value	Multiplier	Criticality Ranking
80	1.25	100
60	1.25	75
40	1.25	50