| Lean Tools and Process Control | |
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| Total Productive Maintenance | |
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| Initiatives Reducing Equipment Breakdown | |
| Reducing Setup Time | |
| Stoppages from nonconforming productMaintaining optimal equipment performance | |
| Reducing scrap and rework | |
| Kanazau | |
| KENNESAW STATE UNIVERSITY | |
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| Benefits | |

• Provides insights into other parts if the

• Identify and address the eight wastes

- Defects

- Overproduction

- Waiting

- Not utilizing talent

- Transportation

- Inventory

- Motion

- Excessive Processing

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improvement cycle

Evolution

- Breakdown Maintenance
- Corrective Maintenance
- Preventative Maintenance
- Productive Maintenance



Elements

- Maintenance infrastructure
- Overall Equipment Effectiveness
- Training and Education
- · Workflow and controls
- Operational Involvement



Overall Equipment Effectiveness

- Availability Downtime
- Performance Speed
- Quality Rate
- OEE = A x P x Q

