

21

## Lean History

- The Arsenal in Venice, Italy
- Honore Blanc and Interchangeable Parts
- Frederick Taylor "The Principles of Scientific Management"
- Frank & Lillian Gilbreth and motion studies
- Henry Ford and the production line
- W. Edward Deming and Total Quality Management
- Training Within Industry Service
- Toyoda and Taiichi Ohno and Toyota Production System

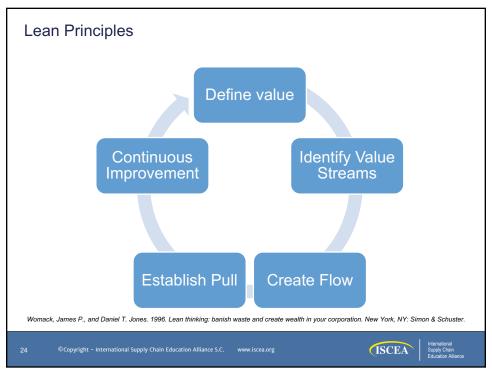
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## What is Lean?

- At its base, it is the development of the worker
- It empowers the employee to make changes they feel are necessary
- Based on the Lean Principles of Value, Value Stream, Flow, Pull, Perfection
- Used to reduce the effects of the 7 Wastes

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23



24



## Lean Six Sigma Promotes a Net Circular World

- Both Lean, Six Sigma and the inputs to these theories align
  - Waste reduction includes reducing Resource Waste for a Net Circular World.
- Some modern focus of Lean include a Sustainable World
  - Example going from 7 Wastes 9 Wastes
  - INCLUDING RISK and SUSTAINABILITY
    - NOT ENGAGING OF PEOPLE TALENT

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26

