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- Lean/Agile Coach at Fortune 500 Companies, focused in Financial Services Sector
 - Certified Scrum Master 2003
 - Advanced Scrum Master 2005
 - Lean Six Sigma 2007 @ Villanova University
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Applying Lean Techniques in the Office - Learning To See Waste

Agenda

- Lean – whadda ya mean?
 - Waste – what is it?
 - Lean Principles
 - Lean Practices
 - Learn to see WASTE
 - Toast Kaizen Video & Exercise
 - More on WASTE
 - Problem Solving using the 5 Why's
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Define Lean

- Lean means elimination of waste
 - Lean creates process speed by eliminating waste
 - Lean improves efficiency quality by eliminating waste (minimizing time, capital invested, and cost)
 - Lean = continuous improvement
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Waste – What is it?

- Any process, machine, product that does not create value for the customer
 - MUDA – Japanese term for waste
 - Why bother – it is estimated that 90% of all activity is waste
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Reasons Why Services are Full of Waste

- Service processes are usually slow process
 - Slow processes are prone to poor quality
 - Cost of Slow processes = 50% waste
 - Processes are slow because there is too much work in progress (WIP)
 - Items in progress can spend 90% of their time waiting for the next step
 - Drives cost up
 - Slow processes tend to have 80% of the delays caused by 20% of the processes
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Seven Simple Rules/Principles

- ❑ **Eliminate Waste:** spend time only on what adds real customer value
 - ❑ **Amplify Learning:** When you have tough problems, increase feedback
 - ❑ **Decide as late as possible:** Deliver value to customers as soon as they ask for it
 - ❑ **Deliver as fast as possible:** Deliver value to customers as soon as they ask for it
 - ❑ **Empower the team:** Let the people who add value use their full potential
 - ❑ **Build integrity in:** Don't try to tack on integrity after the fact – build it in
 - ❑ **See the whole:** Beware of the temptation to optimize parts at the expense of the whole
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Waste – How to see it

- ❑ Learn to see waste
 - ❑ Learn to see your job as a process or set of processes
 - Look at the product and follow the path from the inception/request to /delivery fulfillment
 - ❑ Look at the entire system first
 - ❑ Map the process to find how it operates today (really operates not how you think it operates) and look for wasted time and efforts
 - ❑ Start by removing excess inventory (supplies)
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Kaizen

- Japanese word that means to make small changes for the better
 - Kai means change
 - Zen means good
 - Changes are best when they are created by the person doing the work
 - The person doing the work uses their own common sense and intuition
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Eight Wastes of Manufacturing

- ❑ Inventories
- ❑ Over Processing
- ❑ Overproduction
- ❑ Transport
- ❑ Waiting
- ❑ Motion
- ❑ Defects
- ❑ Underutilization of Employees

Note: Seven Wastes defined by Taiichi Ohno, eighth waste term coined by Ben Chavis, Jr.

Eight Wastes of Software Development

- Partially Done Work
- Extra Processes
- Extra Features
- Task Switching
- Waiting
- Motion
- Defects
- Underutilization of Employees

Note: Seven Wastes of SD defined by Mary Poppendieck

Video

TOAST KAIZEN

- Narrated by Bruce Hamilton, 2006 Shingo Prize Recipient and President of GBMP
- Produced in 2007 by the Greater Boston Manufacturing Partnership

Watch closely and look for examples of waste.

Waste Questions

- Do you agree that this 'waste' is really waste? Why or why not?
 - Whether or not you agree that the item is a waste, estimate how much time it consumes in an average week.
 - What can or should be done to reduce that time?
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Ask Yourself

- What is slowing you down or getting in the way of doing a good job?
 - What would help things move faster, better, cheaper?
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Exercise

- List your top 5 activities
 - Rate them from a customer perspective on a scale of 1 – 5 (low – hi)
 - Think of low scoring items as waste
 - Take the lowest scoring item and plan to cut the time in half
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Problem Solving Step One

- When you encounter a problem –stop and fix the problem first, then return to your regular activity.
 - Never pass the defect or problem along to the next step in the process, or the next person in the workflow.
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Sphere of Influence

- Lean principle break down barriers
 - Understand Lean thinking
 - Create a coalition (like minded folks)
 - In the face of resistance, address the fear
 - Accommodate with minimal waste
 - In the face of indifference, get started
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Lean Practice - Discipline of the 5's

- **Sort** (when in doubt, throw it out)
 - **Straighten** (labeling, color coding, filing)
 - **Shine** (keep cleaning supplies handy, replace worn, torn, items not working)
 - **Standardize** (create layouts, write checklists)
 - **Sustain** (create a new work habit, check it regularly – at least once a week)
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Problem Solve using the 5 Why's

When you identify a problem/bug/bottleneck, ask why 5 times to get to the root cause of the problem, then correct the problem.

Example: Defect found in testing

- Why the defect happened/exists
 - Why the new problem caused the defect
 - Why wasn't it tested
 - Why was there time pressure
 - Why someone thought the time pressure was necessary
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References

Lean Software Development: An Agile Toolkit,
Mary and Tom Poppendieck, 2003, Addison
Wesley

Toast Kaizen: video, by Bruce Hamilton, produced
by Greater Boston Manufacturing Partnership,
2007, www.gbmp.org

Toyota Production System: by Taiichi Ohno

Lean Six Sigma for Services: by Michael George,
2003, McGraw-Hill

Lean Thinking: by James P. Womack and Daniel
Jones, 2003, Simon and Schuster

Learning To See Waste

Thank you!

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