Chapter 4 – Technical Practices

Continuous Delivery

Move to Production Safety, Quickly and Sustainably

5 Key Principles

- 1. Build Quality In
 - Eliminate Inspection
 - Use Tools and People to find issues quickly
- 2. Work in Small Batches
 - Faster to Check'
 - Faster Feedback
- 3. Computers perform Repetitive Tasks; People solve Problems
- 4. Relentlessly Pursue Continuous Improvement
 - Strive to get better
- 5. Everyone is Responsible
 - Collaboration

Outcomes

- 1. Strong Identification with Organization
- 2. Higher Software Delivery Performance
- 3. Lower Change Failure Rates
- 4. Leads to Generative Culture (Performance Oriented)

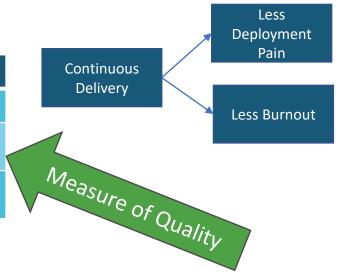
	High Performers	Low Performers
New Work	49%	38%
Unplanned Work (Rework)	21%	27%
Other Work (Meetings, etc)	30%	35%

Foundations

- 1. Comprehensive Configuration Management
 - Environments are Version Controlled
- 2. Continuous Integration (CI)
 - Short Branches
 - Commits lead to Tests
- 3. Continuous Testing
 - Part of Development
 - Automated

Additional Benefits

- Decrease Deployment Pain and Team Burnout
- 2. Deployment during Business Hours
- 3. Developers can accept responsibility for Global Outcomes (Quality)



Continuous Development Practices

- 1. Version Control
- 2. Test Automation
 - 1. Need to be Reliable
 - 2. Developers responsible to create and maintain
 - 3. Every Commit should trigger Automated Tests
- 3. Test Data Management
 - 1. Able to acquire test data

- 4. Trunk-Based Development
 - 1. Fewer Branches (<3)
 - 2. Shorter Branches (< 1 day)
 - 3. Don't use Git Workflow
- 5. Information Security
 - High Performing teams incorporate Information Security into their Delivery Process
 - Increases Software Delivery Performance