

# Agile Contracts



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## Agenda

1. What is Virtual Lunch & Learn
2. Your Expectations from this Webinar
3. Introduction – Myself
4. Agile Contracts
  - a. Overview of Agile and Contracts
  - b. What needs to be in an Agile contract?
  - c. Types of Contracts
  - d. Example of Agile Contracts
5. Upcoming Learning Opportunities from RefineM
6. How to get 1 PDU for this Webinar?
7. Q & A

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## RefineM's Virtual Lunch & Learn

**This is a monthly webinar delivered during the lunch hour in the first week (Wednesdays) of every month.**  
*This month it is on second Tuesday.*

**It's designed to help you learn while you eat lunch, providing a relaxed environment to enhance your experience.**

**The monthly webinars will cover a variety of Project Management/ Agile topics.**

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## Your Expectations

What are your expectations from this webinar?

Why are you here today?

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## NK Shrivastava, PMP, RMP, ACP

**RefineM**  
Helping organizations turn their project management capability into a *competitive advantage*

- \* CEO/Consultant since Dec 2011
- \* Agile Coaching/Adoption
- \* Project Management/ Process Improvement Consulting and Training
- \* Project Management Toolkits (for PMs, Executives and Agile Practitioners)
- \* Board Member – SWMO PMI Chapter

My professional journey b/f RefineM



- \* 20+ years of Successful Project Leadership
- \* Led 100s of projects of all sizes, successfully
- \* Recovered many projects, saved millions of \$
- \* Implemented numerous process improvements
- \* Coached/mentored 100s of PMs, and some executives

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# Agile Contracts




- Overview of Agile and Contracts
- What needs to be in an Agile Contract?
- Types of Contracts
- Examples of Agile Contracts
- Q&A

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## Waterfall vs. Agile

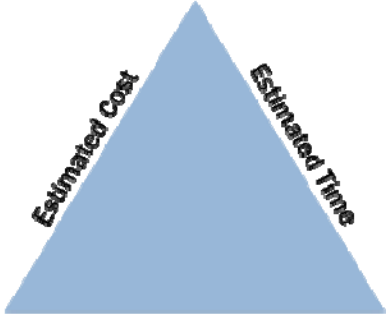
Waterfall	Agile
Fixed scope. Time/cost estimated	Fixed time/cost. Flexible scope
Clear picture of the end product	Product evolves over time
Product over process	Process over product
Delivery at the end	Continuous delivery throughout
Change requests controlled/resisted	Changes welcomed, even late


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## Waterfall Vs. Agile

Flexible on scope/features

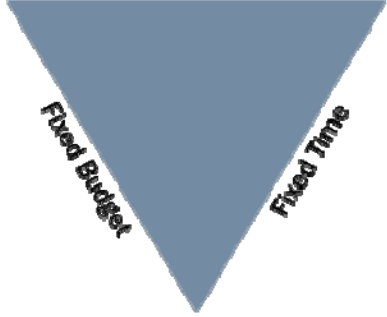
**Traditional**



**Fixed Scope**


**Agile/Time-boxed**

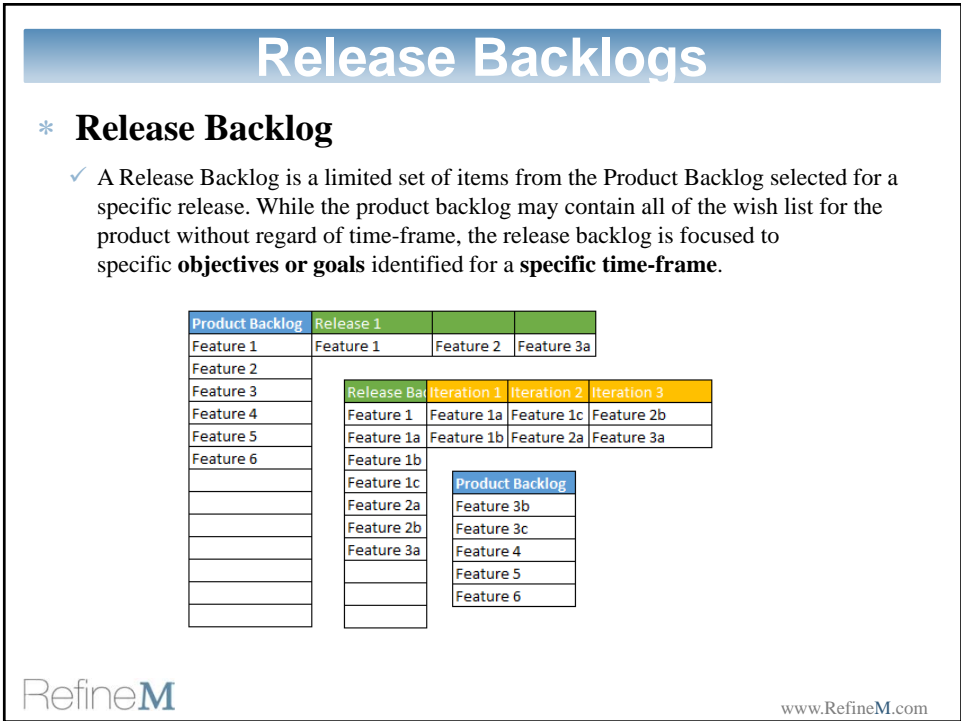
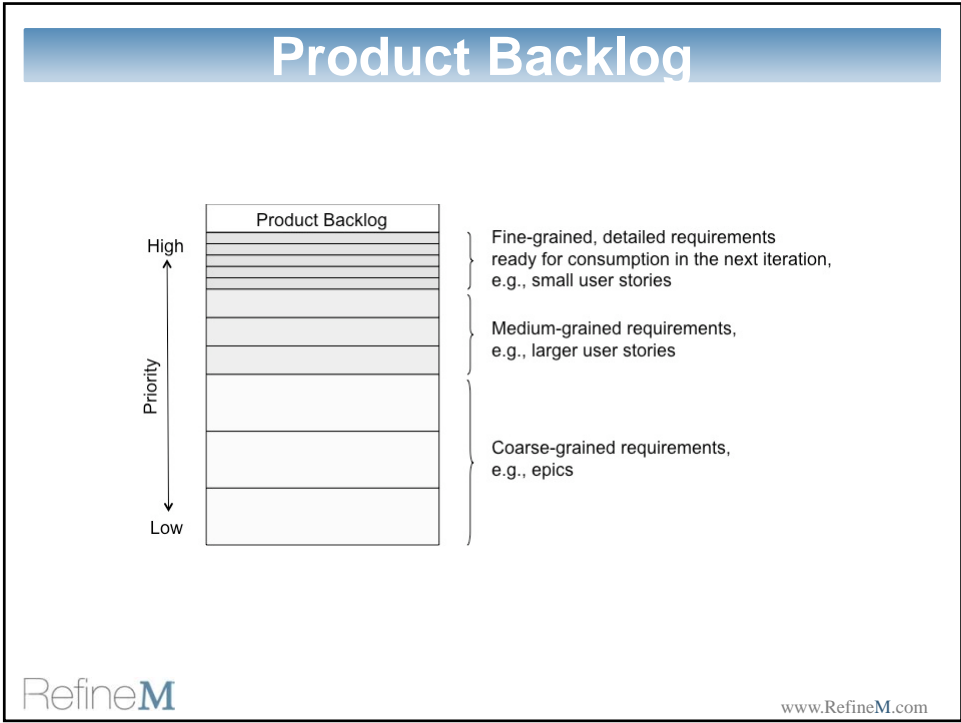
**Flexible Scope**

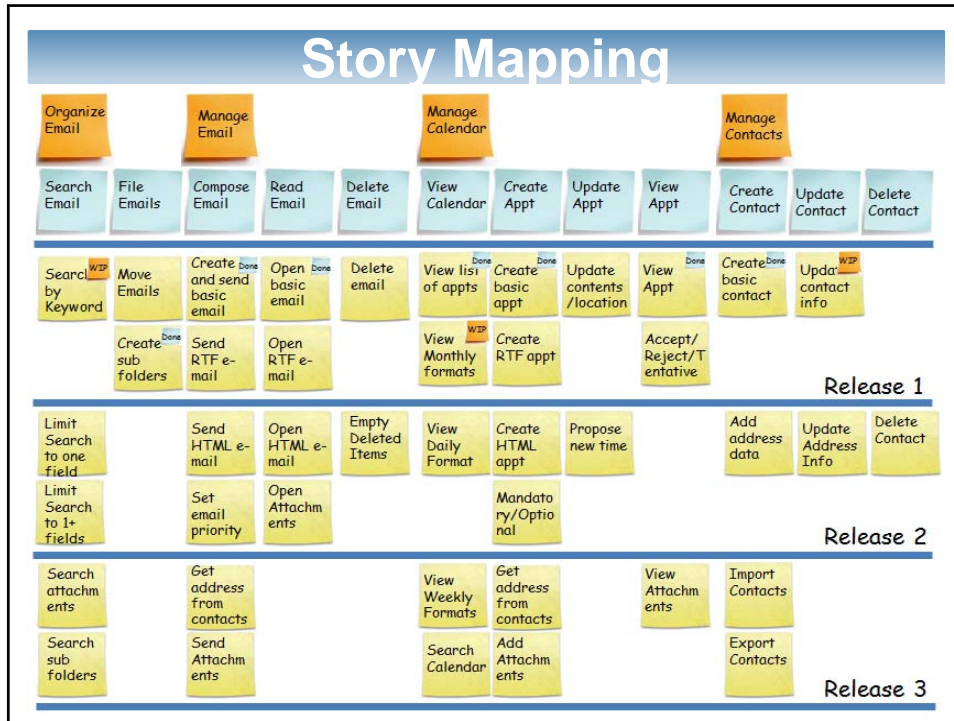


**Fixed Budget**

**Fixed Time**


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## Manifesto for Agile Software Development

We are uncovering better ways of developing software by doing it and helping others do it. Through this work we have come to value:

- Individuals and interactions** over processes and tools
- Working software** over comprehensive documentation
- Customer collaboration** over contract negotiation
- Responding to change** over following a plan

That is, while there is value in the items on the right, we value the items on the left more.

*Was developed in 2001 by 17 agile advocates in Snowbird, UT*

## Agile Twelve Principles

1. **Satisfy the customer thru early and continuous delivery**
2. **Welcome changing requirements even late in development**
3. **Deliver working software frequently a couple of weeks/months**
4. **Work together daily** (business people and developers)
5. **Motivated individuals**, build projects around them, and give them freedom
6. **Face-to-face conversations** is the most efficient and effective method
7. **Working software is the primary measure of progress**
8. **Sustainable development** i.e. maintain a constant pace indefinitely
9. **Continuous Attention** to technical excellence & good design enhance agility
10. **Simplicity** – the art of maximizing the amount of work not done – is essential
11. **Self-organizing teams** deliver the best architectures, requirements, and designs
12. **At regular intervals** the team reflects on how to become more effective

## What Is A Contract?

- \* Three things needed for a procurement relationship:
  - ✓ Buyer
  - ✓ Seller
  - ✓ Contract
- \* A contract defines the relationship between buyer and seller and what each will receive as part of the deal.



## Why a Contract?

- \* Set the rules of engagement
- \* Share risks
  - ✓ Neither side should take on too much or too little risk
  - ✓ Otherwise the contract is not fair
- \* Build trust
  - ✓ Always look for ways to build trust
  - ✓ Helps in short-term as well as in long-term

## Benefits of Agile

- \* Customers get immediate, constant value
- \* Developers form self-motivating teams
- \* Both sides agree on:
  - ✓ Fixed cost and time (boxed)
  - ✓ Flexible scope – changes are expected, even late in the project
  - ✓ Collaboration – throughout the duration of the project

**What needs to be in place for this to work?**

**A solid Agile contract**





## Critical Success Factors for Agile

- \* Flexibility on scope
- \* Emphasis on early, continuous delivery
- \* Welcome changes
- \* Emphasis on how project is run
- \* Collaboration between customer and developer
- \* Constant feedback

**How does the Agile contract meet these challenges?**

## What needs to be in an Agile Contract?

- \* Flexibility
- \* Commitment
- \* Risk-sharing
- \* Defined checkpoints



## Flexibility

- \* **Flexibility around scope**

- ✓ Allow team to work on highest-priority backlog items

- \* **Flexibility around process**

- ✓ Emphasize their process, not product
- ✓ Length of sprints
- ✓ Number of story points delivered
- ✓ Empowered team



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## Commitment

- \* **Customer and team need to commit to collaboration**

- \* **Mechanism for prioritizing the backlog**

- \* **Attendance at ceremonies**

- ✓ Release planning
- ✓ Sprint review
- ✓ Daily scrums
- ✓ Sprint retrospectives

- \* **Adhere to the roles and responsibilities of customer and team**



Savage Chickens

by Doug Savage



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## Risk Sharing

\* **Both sides need to share risk of:**

- ✓ Economic / price fluctuations
- ✓ Cost / time overruns
- ✓ Unforeseen circumstances



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## Defined Checkpoints

\* **Checkpoints related to sprints**

- ✓ Is sprint review satisfactory?
- ✓ Is customer satisfied with work done?
- ✓ Definition of "Done".



\* **Checkpoints related to releases**

- ✓ Does customer want more sprints or is this enough?

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## Major Types of Contracts

- \* **Fixed Price/Fixed Scope**  
(may be Fixed Time too)
- \* **Time and Material (T&M)**
- \* **Cost reimbursable**

Which one is most suited for Agile projects?

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## Agile Contract Examples

- Money for Nothing and Change for Free
- Graduated Fixed Price
- Fixed Price Work Packages
- DSDM Contract
- Customized Contract

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## Money for Nothing And Change for Free

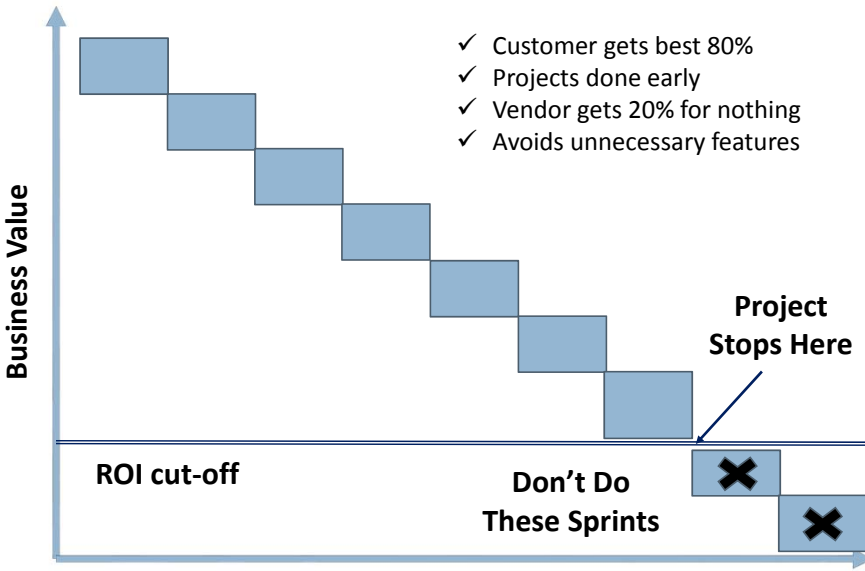
- \* **Standard fixed price**
- \* **Time and materials clause for additional work**
- \* **“Money for Nothing” Option**
  - ✓ Customer can terminate early if ROI of remaining items not sufficient
  - ✓ Vendor gets back 20% of remaining contract value
- \* **“Change for free” option**
  - ✓ Customer can reprioritize backlog at end of iteration
  - ✓ If total contract work not changed, these changes are free
  - ✓ Customer *must* remain engaged in each iteration

Sounds pretty good, right?

*“Money for Nothing, Your Change For Free” Created by Jeff Sutherland*


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## Money for Nothing




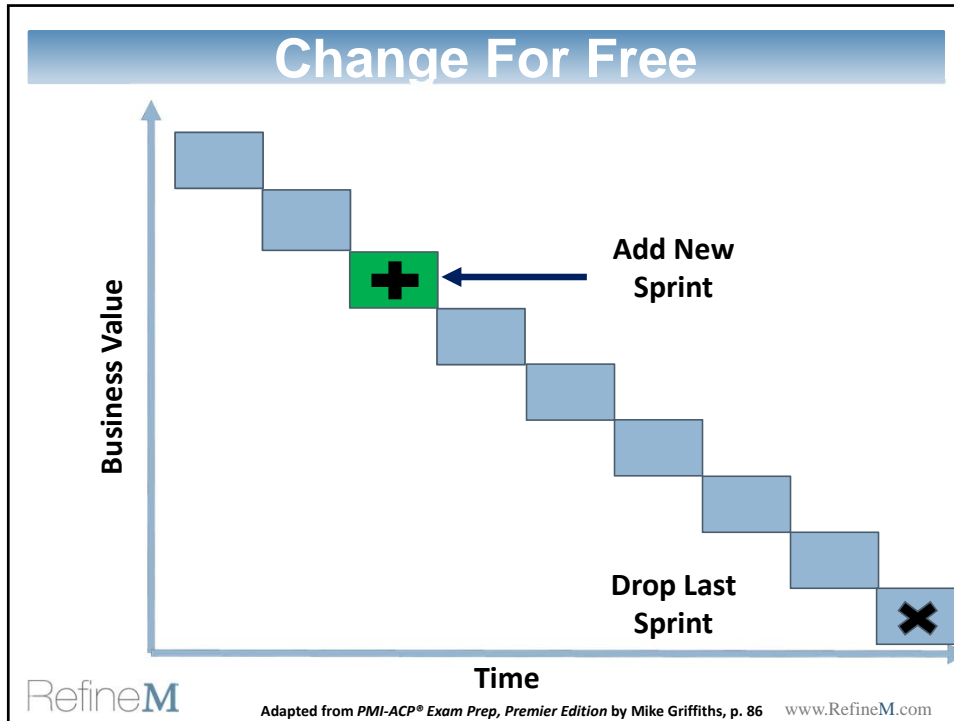
- ✓ Customer gets best 80%
- ✓ Projects done early
- ✓ Vendor gets 20% for nothing
- ✓ Avoids unnecessary features

Project Stops Here

ROI cut-off

Don't Do These Sprints


Adapted from PMI-ACP® Exam Prep, Premier Edition by Mike Griffiths, p. 86 www.RefineM.com



### Graduated Fixed Price

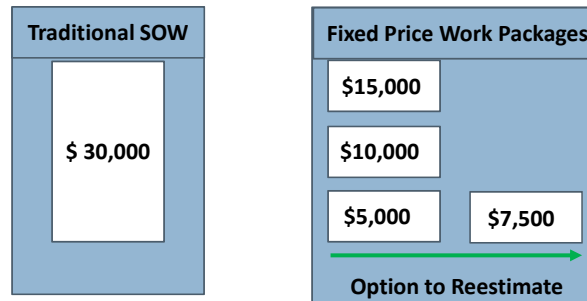
- \* **Hourly rates for supplier differ based on delivery:**
  - ✓ Early: Customer pays supplier for fewer hours, but at a higher rate.
  - ✓ As planned: Customer pays supplier for hours worked at standard rate.
  - ✓ Late: Customer pays supplier reduced rate for the hours worked.

Project Completion	Total Hours Spent	Graduated Rate	Total Fee
Early finish	800	\$120 / hour	\$96,000
As planned	1000	\$100 / hour	\$100,000
Late finish	1200	\$90 / hour	\$108,000

RefineM Graduated Fixed Price created by Thorup and Jensen. Adapted from PMI-ACP® Exam Prep, Premier Edition by Mike Griffiths, p. 87 www.RefineM.com

## Fixed Price Work Packages

- \* **Fixed price on work package level, not SOW level**
  - ✓ Allows customer and supplier to re-estimate based on new information
  - ✓ Allows smaller scope of estimation for greater precision
  - ✓ Used by Marriott International



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Adapted from PMI-ACP® Exam Prep, Premier Edition by Mike Griffiths, p. 87

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## DSDM

- \* Driving Strategy, Delivering More
  - ✓ Customer, supplier reach consensus on delivered value rather than work off specifications
  - ✓ Detailed contracts comprehensively cover project process
- \* Used primarily in UK, Europe
- \* DSDM.org (DSDM Consortium)



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## Customized Contracts

- \* **Combine elements of all of these**
  - ✓ Customer has flexibility to reprioritize work
  - ✓ No incentive for seller to add lot of contingency costs
  - ✓ Protects both parties
  - ✓ Encourages positive behavior



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## Bottom Line

- \* **Agile contracts need to help development, not hurt**
  - ✓ Emphasize flexibility
  - ✓ Specify collaboration, roles and responsibilities
  - ✓ Define metrics for success



**An effective Agile contract is the base for success**

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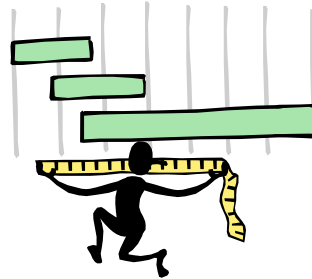
## Metrics

### \* Velocity

- ✓ Number of story points per sprint
- ✓ How team is performing

### \* Defects

- ✓ Measures quality of the code
- ✓ Also measures understanding of requirements
- ✓ Repair to build ratio



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## Tools to Measure

### \* Velocity

- ✓ Burndown chart (sprint level)
- ✓ Burnup chart (release level)

### \* Defects

- ✓ Bug / defect tracking system
  - JIRA
  - VersionOne
  - Other PPM tools
  - Open source/Free such as Bugzilla



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## Summary

- \* Agile contracts need to promote trust, flexibility, risk-sharing, and collaboration
- \* Many different options are available for Agile contracts
- \* The examples presented are just a starting point
- \* Define metrics for success and tools to measure



**Questions?**

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## More Learning Opportunities From RefineM

- \* **PMP® Exam Prep Course – Jul 15-25, 2014 – 36 Hrs/PDUs**
  - ✓ Instructor led virtual course, 8 sessions (4 hours every day, Tues-Fri, for 2 weeks)
  - ✓ Includes a full length mock test, and tips & tricks to pass the exam
- \* **A Project Manager's Toolkit – Jul 30-31, 2014 – 7 PDUs**
  - ✓ Learn more about simple processes to achieve high-level project results
  - ✓ Two instructor-led virtual sessions of four hours each
- \* **PMI-ACP® Exam Prep – Aug 27-28, 2014 – 21 PDUs**
  - ✓ Two full-day face-to-face sessions at eFactory (405 N.Jefferson, Springfield, MO 65806)
  - ✓ Learn all about Agile to prepare for the PMI-ACP exam

***We also offer customized trainings, On-site & Virtual***  
***Topics include Agile, Project Management, Strategy, Leadership,***  
***Process Improvement, and PMI Certifications.***

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More info at <http://refinem.com/trainings/>

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## August Lunch and Learn

- \* *PMI-ACP Tips and Tricks*
  - ✓ What does it take to pass on the first try?
  - ✓ Study Plan
  - ✓ Test Preparation
  - ✓ Pitfalls and Best Practices
- \* *Wednesday, August 6, 12:00-1:00 PM CST*

**Register Today - Don't wait for the last Minute**

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## How to Claim 1 PDU for this Webinar?

- \* PDU Category – B, Continuing Education
- \* Program Title – Webinar on “Agile Contracts”
- \* Date Started – Today’s date
- \* Date Completed – Today’s date
- \* Hours Completed – 1.00
- \* Provider
  - ✓ Name – RefineM
  - ✓ Phone # 417-414-9886
  - ✓ Email – [nks@refinem.com](mailto:nks@refinem.com)
- \* PDUs Claimed – 1.00

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## Questions?



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## Supporting Slides

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## Contracts for Software Development

- \* For software development contracts, contract needs:
  - ✓ The purpose of the project
  - ✓ How it will be run
  - ✓ What to do if things go wrong

Software development process has special considerations

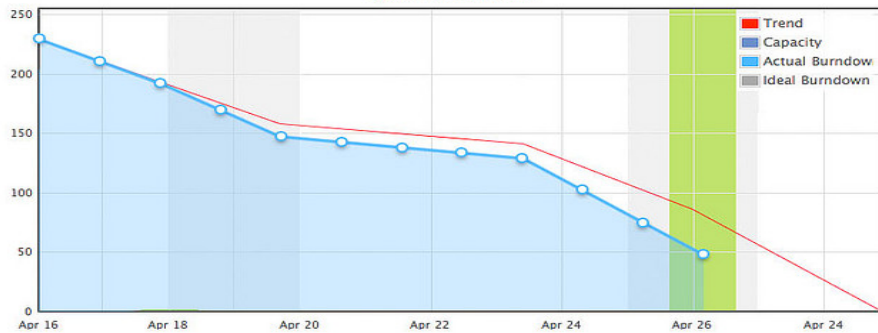
Contract should also have these

## Example Burndown Chart

Sprint Backlog for j\_sprint (team: b-team) (displaying some of 2 items)

Start: 16.04.2009 End: 28.04.2009 Status:

Sprint Burndown Chart



## Fixed Price (FP)

- \* Buyer and seller agree on a set price for a defined scope
- \* Incentive Fee (FPIF)
  - ✓ Seller receives incentives for meeting specific performance goals
- \* Award Fee (FPAF)
  - ✓ Award amount is available for meeting performance goals
- \* Economic Price Adjustment (EPA)
  - ✓ Fixed price changes based on economic index factors (e.g. inflation)
- \* Specifics to Agile
  - ✓ Often shorter in Agile
  - ✓ Sometimes covers one sprint

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## Time and Materials (T&M)

- \* Time and Material (T&M)
  - ✓ Seller is paid based on labor costs and material costs
  - ✓ Needs oversight to make sure costs controlled
- \* Capped T&M
  - ✓ Suppliers cover their costs up to a fixed cap
  - ✓ Customer doesn't pay more than the cap
  - ✓ Both sides share risk of cost overrun
  - ✓ Good for risk sharing

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## Cost-Reimbursable (CR)

### \* Cost-reimbursable contracts

- ✓ The seller's cost are reimbursed, plus an additional amount.
- ✓ The buyer has the most cost risk because the total costs are unknown.
- ✓ This form of contract is often used when the buyer can only describe what is needed, rather than what to do.
- ✓ The seller will therefore write the detailed contract statement work.
- ✓ For Agile, important to keep costs under control due to changes.

## Cost-Reimbursable Types

### \* Cost Plus Fixed Fee (CPFF)

- ✓ Buyer pays all costs, but fee is fixed at specific amount
- ✓ Helps to control costs

### \* Cost Plus Incentive Fee (CPIF)

- ✓ Pays all costs and an agreed-upon fee plus performance incentives

### \* Cost Plus Award Fee (CPAF)

- ✓ Pays all costs with fee based on meeting performance criteria

## IDIQ / Delivery Order

- \* Indefinite Duration Indefinite Quantity / Delivery Order
- \* Another type sometimes used in Agile
  - ✓ Duration may change
  - ✓ Quantity may change
  - ✓ Most flexible
  - ✓ Hard to manage multiple ones at once