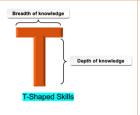
#### **DOMAIN I: PEOPLE**

#### Lesson 1: Creating a high performing team

- T-shaped Skills
- RACI
- Focus groups
- Project charter vs. Team charter
- Ground rules/Social contract



Work performance data

rformance formation Work performance report

- User Story, Definition of Ready, Acceptance Criteria, Definition of Done
- Absolute time estimate (3-point estimating) vs.
   Relative measure (Planning poker, Story pointing and T-shirt sizing)
- Resource management plan includes training plan and recognition plan.
- Training, Paring, Mentoring, Baselining
- Face-to-face communication in virtual team,
   Fishbowl window
- 5 stages of Tuckman model:



- 4 backlog prioritization techniques: Kano, MoSCoW, Paired Comparison, 100 Points
- 4 Agile ceremonies: Sprint Planning, Daily Standup, Sprint Review, Sprint Retrospective
- 4 techniques to get consensus: Fist of Five, Roman voting, Polling, Dot voting
- 2 techniques for establishing a shared vision: XP metaphor, Product box exercise
- 4 codes of ethics: Responsibility, Respect, Fairness and Honesty

## Lesson 4: Keeping the team on track

• 4 Characteristics of Servant Leadership:

Provide coaching and training

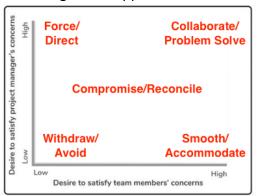
Remove work impediments

Focus on accomplishments

- 3 Stakeholder Classification Tools: power grid, salience mode and stakeholder cube
- 6 Performance Report Types



- Value Stream Map
- 5 Conflict Management Approaches:



- 5 Elements of Emotional Intelligence: Selfawareness, Self-regulation, Motivation, Empathy, Social Skills
- 4 Organizational Theories: Maslow, McGregor, McClelland, Herzberg
- Halo affect

#### **DOMAIN III: BUSINESS**

- 4 common compliance categories: regulatory, quality, legal, process
- Tolerances and Escalation procedures
- 4 common benefit management techniques: Net Promoter Score, A/B Testing, Decision Tree Analysis, Monte Carlo Analysis
- 4 Types of Organizational Structures: Functional, Project oriented, Matrix, Composite
- 3 types of PMO: Supportive, Controlling, Directive
- Organizational Process Assets (OPAs) vs. Enterprise Environmental Factors (EEFs)
- Kaizen vs. Deming cycle (P-D-C-A or P-D-S-A)



#### **DOMAIN II: PROCESS**

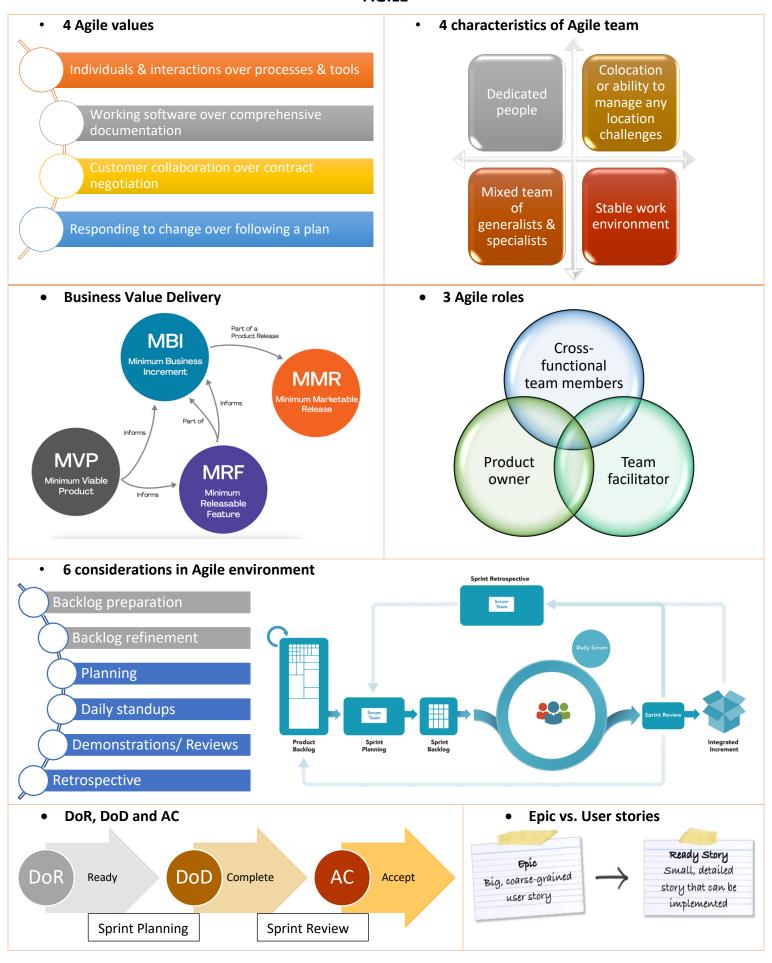
# **Lesson 2: Starting the project** Scope • Requirement Management Plan vs. Scope Management Plan Elicitation techniques: 4 Decision Making techniques: Unanimity, Majority, Plurality, Autocratic o Mind mapping vs. Affinity Diagram Prototypes vs. Storyboarding • Scope Baseline: 3 steps: Requirement documentation -> Scope statement -> WBS 5 components: Scope statement, WBS, WBS Dictionary, Planning package, Work package Scope creep Scope Schedule Schedule Control **WBS** Activities 4 types of activity dependencies: Mandatory, Discretionary, External, Internal • 4 types of relationship: FS, SS, FF, FS • 3 schedule formats: Milestone chart, Project schedule network diagram, Gantt chart 2 resource optimization techniques: Resource leveling, Resource smoothing 2 schedule compression techniques: Fast tracking, Crashing Cost 3 elements of activity cost: Direct cost, Indirect cost, Contingency reserve 3 estimating techniques: Analogous, Parametric, Bottom-up 3 estimate types: ROM (-25% to 75%), Definitive estimate (-5% to 10%), Phased estimate Project budget = Cost baseline + Management reserve Cost baseline vs. Funding requirement Funding limit reconciliation Quality Cost of Quality: Cost of conformance vs. Cost of non-conformance) Audit: processes/policies/procedures compliance and improvement Verification: **Control Quality** Validate Scope Verified Accepted Deliverables **Deliverables Deliverables** Project team Customer Validation, based on quality requirements and/or standards based on acceptance criteria of requirements • 5 quality measurement tools: Cause and Effect diagram (Ishikawa diagram, why-why diagram, fishbone diagram), Scatter diagram, Control chart, Pareto chart, Statiscal sampling Integration • 2 key components of project management plan: project baseline and subsidiary plans Procurement Source selection criteria Bidder conferences 3 contract types: Fixed Price (FP), Cost Reimbursable (CR), Time and Material (T&M) 4 legal concepts: Waranty, Waiver, Breach of contract, Cease and desist letter • 2 steps managing disputes: Negotiation, Alternative Dispute Resolution (ADR)

#### **Lesson 3: Doing the work** Risks Risk Breakdown Structure (RBS) Positive risks (Opportunities) vs. Negative risks (Threat) Probability and Impact matrix, Watch list • Secondary risk vs. Residual risk Contingency plan, Fallback plan • 5 negative risk response strategies: Mitigate Escalate Avoid Accept 5 positive risk response strategies: Exploit Enhance Escalate Accept A risk happens => implement risk response plan. An issue occurs => workaround Changes 4 causes of changes: PM logs change request Send rejection notice Change Inaccurate estimates, Specification changes, Rejected passes New regulations, Missed requirements. Accepted 4 components of approved changes: o corrective action, Yes preventive action, o defect repair, o document/plan updates. Major impact PM, sponsor, 8 Deliverable Change Rebalance the projec **Management Process** Flowchart: Execute the change Communications • Communication Management Plan includes stakeholder communications requirements and escalation process. • 3 communication methods: push, pull and interactive 2 sources of noise in communication model: transmission and decoding. **Transmit** Dr. Albert Mehrabian's 7-38-55% Rule Message **Elements of Personal** Encode Decode Communication Noise 55% Receiver Sender • 7% spoken words Noise **Acknowledge** 38% • 38% voice, tone Decode Encode Feedback/Response 55% body language Stakeholders Stakeholder Register vs. Stakeholder Management Plan Stakeholder Engagement Plan includes Stakeholder Engagement Assessment matrix and

- Stakeholder Engagement approaches.
- 5 engagement levels in Stakeholder Engagement Assessment matrix:

Resistant Neutral Supportive

## **AGILE**



# **FORMULAS**

Name	Acronym	Formula
Three-Point Estimate		Beta Distribution (PERT): (P + 4*M + O) / 6
		Triangular Distribution: (P + O + M) / 3
Total Float/ Slack		Project duration – Path Duration
		(LS - ES = LF - EF)
Risk Score		Propability * Impact
<b>Communications Channels</b>		N * (N-1) / 2
Planned Value	PV	% work planned to date * budgeted cost
		The authorized budget assigned to scheduled work.
Earned Value	EV	% work complete to date * budgeted cost
		The measure of work performed expressed in terms of the budget authorized for that work.
Actual Cost	AC	The realized cost incurred for the work performed on an activity during a specific time period.
Cost Variance	CV	EV - AC
		CV > 0: under budget. CV < 0: over budget.
Schedule Variance	SV	EV - PV
		SV > 0: ahead schedule. SV < 0: behind schedule.
Cost Performance Index	CPI	EV / AC (traditional approach)
		completed value / planned value (Agile approach)
		CPI > 1: under budget. CPI < 1: over budget.
Schedule Performance	SPI	EV / PV (traditional approach)
Index		completed stories / planned stories (Agile approach)
		SPI > 1: ahead schedule. SPI < 1: behind schedule.
<b>Estimate At Completion</b>	EAC	BAC / CPI
		The current projected final cost of the project.
Estimate to Complete	ETC	EAC – AC
		The amount of money needed to complete the project.
Variance at Complete	VAC	BAC - EAC
<b>Expected Monetary Value</b>	EMV	The monetary value of a possible outcome * The probability it will occur
Net Promoter Score	NPS	% Promoters – % Detractors
Discounted cash flow	PV, FV	PV = FV / ((1 +r) ^ n)

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