Introduction:

Acknowledging wider acceptance of agile methodologies, PMI launched its certification for agile, PMI-ACP in 2011. It is intended for practitioners who use agile methodologies. It demonstrates practitioner's knowledge and skills in agile principles, practices, tools and techniques.

PMI with its huge reputation for certifications like PMP, PgMP, is also promoting ACP and it is gaining momentum. This workshop is aimed at preparing aspirants to face the PMI-ACP examination with confidence.

Learning Objectives: The course will enable participants to …

- Explore various agile methodologies, knowledge, skills, techniques, beyond just scrum
- Learn various knowledge and skills as described in PMI-ACP exam content outline
- Learn various tools and techniques as described in PMI-ACP exam content outline
- Solve about 100+ questions in class to get a feel of actual examination
- Confidently face the PMI-ACP examination

Participants' profile:

- Participants should have worked on projects, project management background will be an advantage.
- Some experience with any agile method would be required

Duration: 3 days (21 hours / PDUs)

Course Outline:

Sr. No.	Day	Session Description / Learning Objectives
1	Day 1	• Quick ice breaker test • Introduction • About PMI-ACP exam – procedure, eligibility, fees, etc
2	Day 1	• Introduction to incremental and iterative way of product development • How it is different, why • What challenges it addresses • Introduce agile, agile manifesto, principles

3	Day 1	• Scope management in agile
		   o Role modelling, prototyping, wireframes, extreme characters, personas, brainstorming, mind maps, NGT
		   o Story maps, user stories, epics, themes, product backlog
		   o Risk adjusted backlog, spike, complex stories
		   o 3C's, INVEST, split and combine stories

4	Day 1	• Value based prioritization of product backlog
		   o Financial prioritization – NPV, ROI, payback period
		   o Risk vis-à-vis value based prioritization
		   o Kano model (Desirability based)
		   o Theme screening

Sr. No.	Day	Session Description / Learning Objectives

5	Day 2	• Estimating work involved
		  o Relative sizing
		  o Story points, ideal days, T-shirt sizing
		  o Planning poker

6	Day 2	• Planning agile projects
		  o Release planning
		  o Sprint planning – capacity based and velocity based
		• Slacks
		• Risk multiplier and risk adjusted burn charts
		• Estimating velocity
		• Sprint length – how

7	Day 2	• Monitoring agile projects
		  o Release burn down bar charts
		  o Sprint burn down bar charts
		  o Burn up charts
		  o Burn down bar charts
		  o Cumulative flow diagram
		  o Parking lot charts
		• Daily stand up
		• Sprint review
		• Sprint retrospective
		  o Mute mapping
		  o Star fish
		  o PDCA
		  o Force field analysis

8	Day 2	• Agile modeling and TDD

9	Day 3	• Introduction to Lean
		  o WIP limits
		  o Value stream mapping
		  o Systems thinking
		  o Kanban
		  o Scrum vs Kanban
		  o Fish bone diagram, 5-why technique

10	Day 3	• Building quality in scrum projects
		  o Continuous integration
		  o Escaped defects
		  o Definition of done
		  o MMF
		  o Continuous delivery

11	Day 3	• Communication on agile projects
		  o Self-managed and self-organized teams
		  o Team room – big visible charts, information radiators
		  o Osmotic communication
		  o Collocation

12	Day 3	• Miscellaneous
		  o Suitable contract types for agile projects
		  o Challenges with scaled projects, distributed teams

Note: This overall flow of the course is subject to change based on participants' interactions & queries.