



Learner Intake & Profiling converts raw student input into a structured learner profile that the Planner uses for orchestration.

1.1 Learning Path Planner maps the exam syllabus to structured domains and authoritative Microsoft Learn resources (merged from Syllabus Mapper + Path Curator). **1.2 Study Plan & Engagement Generator** converts the path into a weekly schedule with milestones and sends engagement reminders (merged from Study Plan Generator + Engagement Reminders).

2.1 Assessment Builder generates exam-style questions tagged by objective and difficulty. **2.2 Tiered Verifier + Repair Loop** validates questions for correctness, coverage and safety; repairs and re-verifies before output. **2.3 Scoring Engine** computes domain and overall scores deterministically.

3.1 Gap Analyzer & Decision Policy converts scores into objective-level insights and applies explicit readiness thresholds (overall ≥ 75 , all domains ≥ 70) to decide: ready → exam, or not ready → targeted remediation and replan. **3.2 Certification + Exam Planner** converts the ready signal into concrete next steps for booking and sitting the Microsoft exam.