



Things to know...

- All participants will be on mute
- Questions are welcome
- Ask questions in the question box
- We DO NOT send out PDU certificates
- May be valid for PDU credit (self-report session)
- Recording and slides sent by tomorrow

Moderator

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Marketing

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Presenter

Cameron Watson

President, QAlassist

cwatson@qaiassist.com

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Who's on the call?



- I am a Project Manager
- I am a Business or Operational Manager
- I am a software developer or software tester
- I am a member of an organizational PMO, governance or quality assurance function
- I want a better understanding of IT Methodology



Who is QAlassist?



- Established 2007 Ottawa, Canada
- Nurturing organizational efficiency through IT Methodology knowledge & expertise
- Support and promote a community with evolving IT Methodology knowledge and expertise
- Maintain, optimize, promote and support the delivery of IT methodology products and lifecycles proven to increase operational performance
- Administration and oversight of QAlassist Integrated Methodology (QAlassist-IM) and formal certifications – "Foundation" & "Practitioner"
- Support practitioners and authorized affiliates in acquiring and delivering IT Methodology knowledge and expertise



IT Methodology Webinar Audience



- Nurturing efficiency through IT Methodology knowledge & expertise across the globe
 - Over 200 countries
 - Wide array of industries (manufacturing, banking, health, insurance, consulting)
 - More than 50 unique webinars
- Over 10,000 webinar registrants
 - Executives
 - Operational & Delivery Managers
 - Project Managers
 - Business Analysts and Architects
 - Application Developers & Testers
 - Corporate PMO, Quality Assurance, Continuous Improvement
 - Consultants



QAlassist 2017 Series - Goals





- Share IT Methodology knowledge
- Develop IT methodology understanding & expertise
- Provide additional insight into several IT (project management, software development, software testing) methodologies
- Discuss best practices on incorporating an organizational IT methodology
- Promote ongoing dialog and feedback with webinar audience (questions, email, survey)



2017 Schedule



- The 3rd Wednesday of Every Month
 - 8:00 am Pacific 11:00 am Eastern Time
- IT Methodology Concepts (60 mins)
 - This series of six webinars will be presented on a bi-monthly basis. Each webinar
 will provide you with a context, overview, terminology and general understanding
 of information technology (IT) methodology.
- IT Methodology Tutorials (60 mins)
 - This series of five webinars will be presented on a bi-monthly basis. Each session is designed to offer a more "hands on" perspective – bridging the concepts into a practical utilization.



2017 Concept Sessions



- The 3rd Wednesday of Month (Jan, Mar, May, Jul, Sept, Nov)
 - 8:00 am Pacific 11:00 am Eastern Time
- IT Methodology Concepts (60 mins)
 - A Context for IT Methodology (Jan)
 - Apply PM Fundamentals to IT (Mar)
 - Leverage the Software Development Lifecycle (May)
 - Explore the Software Testing Lifecycle (Jul)
 - Incorporate Organizational Process Governance (Sept)
 - Implementing IT Methodology (Nov)



2017 Tutorial Sessions



- The 3rd Wednesday of Month (Feb, Apr, Jun, Aug, Oct)
 - 8:00 am Pacific 11:00 am Eastern Time
- IT Methodology Tutorials (60 mins)
 - Applying IT Methodology to Project Initiation (Feb)
 - Project Planning & Design with IT in Mind (Apr)
 - Executing Projects with IT Methodologies (Jun)
 - Project Control & Verification (Aug)
 - Project Close & Delivery (Oct)



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Leverage the Software Development Lifecycle Concepts III



Webinar Goals

- Review previous IT Methodology Concepts Sessions (Jan, Mar)
- Define a context for Software Development Lifecycle (SDLC)
- Discuss significance of Requirements and Traceability
- Identify the purpose and objectives of SDLC phases



Leverage the Software Development Lifecycle Concepts III - Agenda



- Establish webinar context review previous "Concepts" sessions
 - Jan A Context for IT Methodology
 - Mar- Apply PM Fundamentals to IT
- Software Development Lifecycle (SDLC) Context and Premise
- SDLC Requirements (Identification and Definition)
- SDLC Phases Objectives, Iterations, Traceability
- SDLC Internal Dynamics (PMLC and STLC interfaces)
- Recap



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Terms, Terms and more Terms



- IT Framework, IT Methodology, IT Lifecycle
 - Non Standard usage in terminology
 - Terms are used interchangeably between organizations and across the IT industry
 - Examples include

Project Management Methodology/Lifecycle/Framework

Software Development Methodology/Lifecycle (SDLC)/Framework

Software Testing
 Methodology/Lifecycle/Framework

Every IT organization is using an IT Methodology or IT Lifecycle or IT Framework



IT Methodology Context





- Organizational Frameworks
 - ISO(900XXX), CMMI, Six-Sigma, ITIL, COBIT
- Methodologies/Lifecycles (noun)
 - Rational Unified Process (RUP), QAlassist
 (IM), PMI, Prince2
- Methodologies/Lifecycles (verb)
 - Waterfall, Spiral, Agile, RAD, etc



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IT Methodology – Map & Journey





- Methodologies/Lifecycles "noun"
 - The roadmap
 - Rational Unified Process (RUP),
 QAlassist (IM), PMI, Prince2
- Methodologies/Lifecycles "verb"
 - The journey taken along the road
 - Waterfall, Spiral, Agile, RAD,
 Prototyping, etc

IT Methodology/Lifecycle - Noun



- All Methodologies/Lifecycles (RUP, QAIassist-IM, PMI, Prince2) define, utilize and rely on their own pre-defined structure, naming conventions, and terminology
- Hierarchy/Structure
 - Methodology/Lifecycle (ie Project Management, Software Development, Software Testing)
 - Phase/Stage (ie Initiate, Planning, Design, Closeout)
 - Deliverable/Artifact/Work Product (ie Project Charter, Testing Strategy)
 - Activity (tasks performed to complete deliverables, artifacts, work products)



QAlassist Integrated Methodology



QAlassist Integrated Methodology

	Initiate	Plan	Execute & Control	Closeout
Project Management	Business Case Detailed Business Reqt's	Project Charter Project Plan Project Schedule/VBS Roles & Responsibilities Project Deliverables Config. Management Plan Quality Assurance Plan Project Procedures	All previously created PM deliverables Project Risk Definition Project Risk Log Project Change Request Log Project Change Request Log	Project Closeout

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"Deliverable/Artifact/Work Product" versus "Activity"



Building an IT Application

- Deliverable (Artifact, Work Product)
 - Business Case
 - Project Plan
 - User Acceptance Test Plan
- Activity (non-Deliverable, non-Artifact, non Work Product)
 - Reviewing business need with Operational Management, Business Analysts and End-Users
 - Meeting with Stakeholders to acquire approval of Project Plan
 - Discussing User Acceptance Testing objectives and priorities with testing team



Deliverable/Artifact/Work Product Construct/Format



- Fixed Sections (always populated)
 - Title Page
 - Deliverable Details (Author, Creation Date, Version, Status, etc)
 - Deliverable History, Reviewers, Sign Off
 - Table of Contents (as per deliverable)
 - Context (purpose of the deliverable)
- Variable Sections (based on pre-defined informational requirements)
 - Structure/format defined as per deliverable (ie a Project Charter deliverable does not have the same pre-defined informational requirements as a Testing Strategy deliverable)



Deliverable/Artifact/Work Product Status



- Draft Deliverable has been identified, assigned and is in the process of being drafted/completed
- Review "Draft" deliverable has been completed and submitted for "review" and "authorization"
- Approved/Archived "Reviewed" deliverable has been "Authorized" by designated stakeholders and put under configuration management
- Applied Information within "Authorized" deliverable is being referenced and/or utilized
 within another deliverable



"Deliverable/Artifact/Work Product" Attributes



Tangible (pre-defined informational requirements)

- Can be identified and defined (completion dates, cost) on Project Schedule
- Can be assigned (populating information requirements) to project team member(s)
- Can be referenced by project team members to support creation of other deliverables
- Can be formally reviewed and officially authorized
- Will alter in status (authored, reviewed, approved, archived, referenced) throughout life of project
- Will reflect evolving deliverable and project status/progress (risks, issues, percentage complete)
- Can be placed under formal configuration management re: with evolving status
- Can be accessed for future reference (application support and maintenance)



Methodology Fundamentals 101



- Viable IT methodologies (noun and verb) are designed to help not hinder
- IT methodologies (noun) are applicable for a wide range of IT Methodologies (verb) and delivery approaches (waterfall, spiral, agile, RAD, prototyping, etc)
- No hard or specific rules (ie iterations, frequency of iterations, deliverables to be completed) of how an IT methodology (noun) can best be applied or leveraged by an organization or project team
- No silver bullet if the perfect combination of IT Methodology (noun) and IT
 Methodology (verb) existed, every project team and organization would be using it



Methodology Fundamentals 102



- Deliverables (and content) may be re-usable from one project to another
- Not every deliverable of every phase has to be completed for every project
 any and every deliverable to be completed must add value (cost, schedule, quality) to the project
- Not every section or sub-section of every deliverable has to be completed for every project information used to populate every deliverable must add value (cost, schedule, quality) to the project



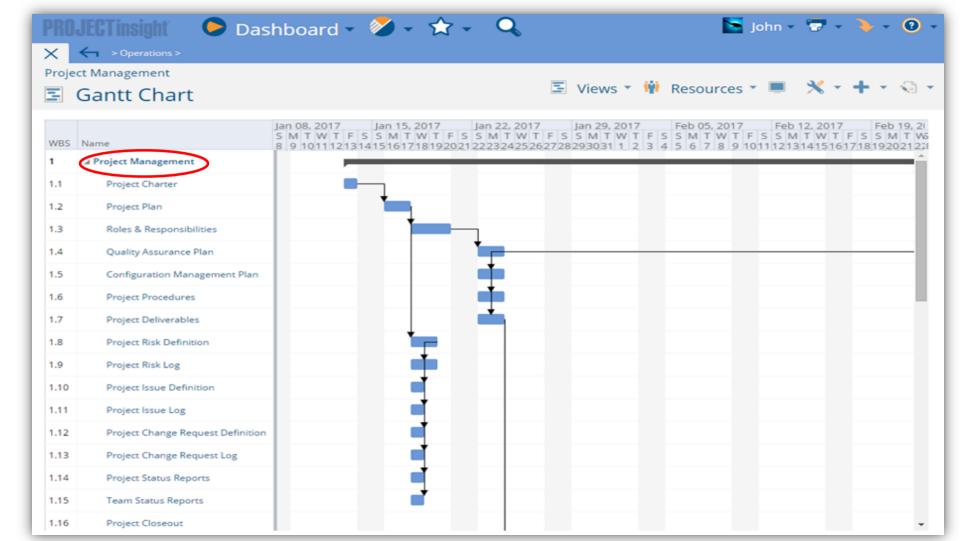
QAlassist Integrated Methodology



QAlassist Integrated Methodology

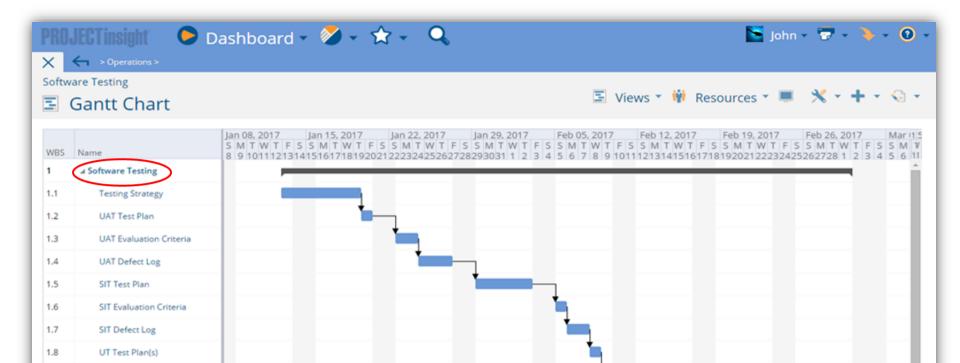
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1.9

1.10

1.11

1.12

1.13

1.14

1.15

Unit Test Accept Criteria

Sys. Integration Evaluation

User Acceptance Evaluation

UT Defect Log(s)

UT Authorization

SIT Authorization

UAT Authorization

Leverage the Software Development Lifecycle Concepts III - Agenda



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SDLC – Business Context



Development Environment

- New Products
- New Operational Business Applications (ie HR, Accounting, Sales, etc)

Maintenance/Support Environment

- Existing Products
- Existing Operational Business Applications (HR, Accounting, Sales, etc)
- Off the Shelf Applications



SDLC – IT Context



- Multiple IT Environments
 - Mainframe, Distributed, Web Based
- Multiple Delivery Approaches Methodology (verb)
 - Waterfall
 - Agile
 - Prototyping
- Integrations
 - Project Management Lifecycle
 - Software Testing Lifecycle



SDLC – Inherent Principle



- How many requirements (and associated functionality) should/can be developed?
 - Too Few leads to a solution that does not satisfy the business need
 - Too Many leads to a solution that is over priced, over built, over budget and past due (and may still not satisfy the business need)

How can a project team know when they are best leveraging an SDLC to develop the appropriate level of functionality?





Identifying, Designing, Building and Unit Testing functionality

**** Functionality cannot be delivered in a vacuum ***

Manual Functionality

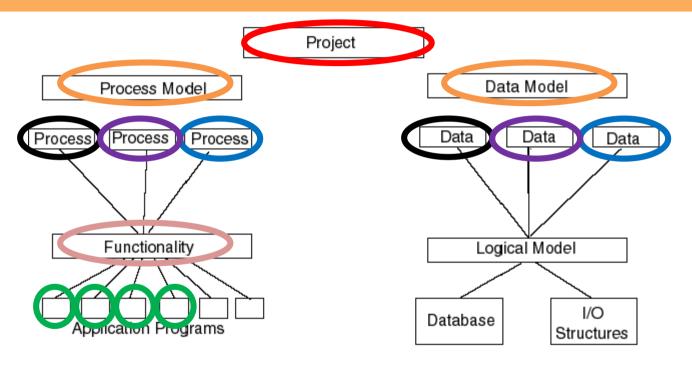
 Processes that deliver or administer the delivery of products and/or services (often leverages automated functionality)

Automated Functionality

IT Systems/Applications that interface and support the delivery of Manual
 Functionality

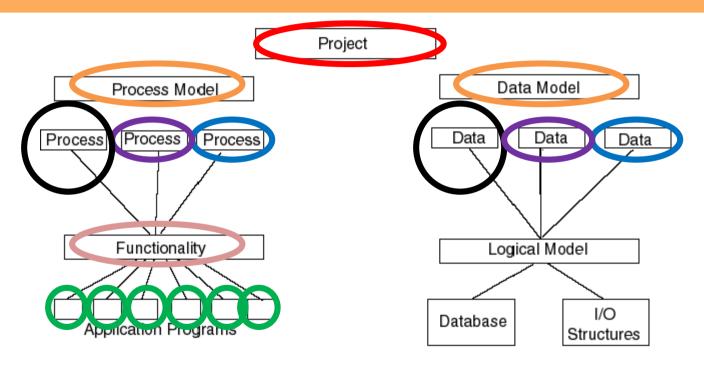






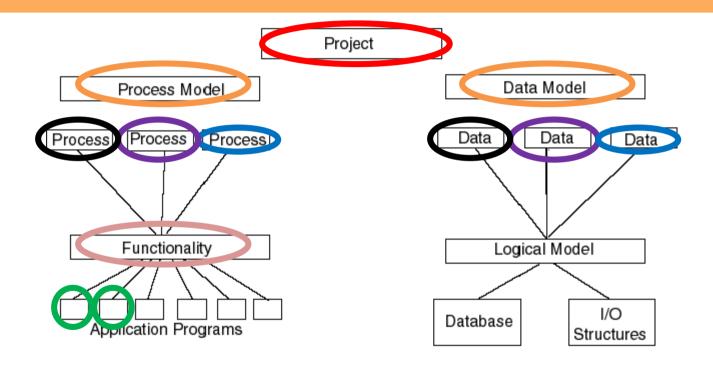






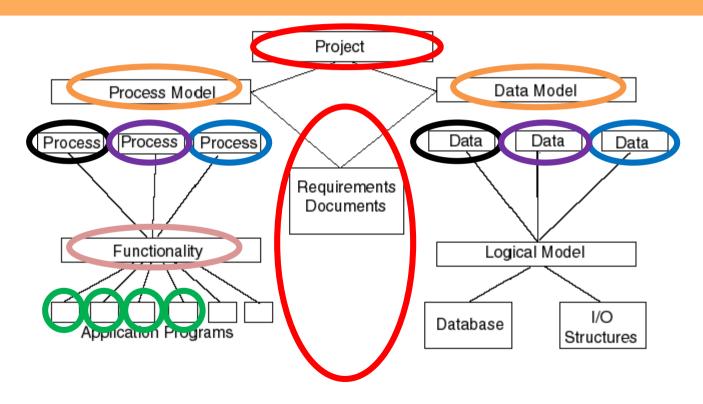
















Generic Cohesion

- "Data" and "Process" exist a correlation exists between them
- "Data" identifies and defines the information that will be utilized by the application to satisfy the business need
- "Process" defines how the "Data" will be utilized/leveraged to satisfy the business need

Data

- "Subject" highest level definition of user requirement correlation with "System"
- "Topics" breakdown of "Subject" correlation with "Sub-Systems"
- "Entities" breakdown of "Topics" correlation with "Functions"

Process

- "System" highest level "process" correlation with "Subject"
- "Sub-System(s)" breakdown of "System" correlation with "Topics"
- "Function(s)" breakdown of "Sub-Systems" correlation with "Entities"





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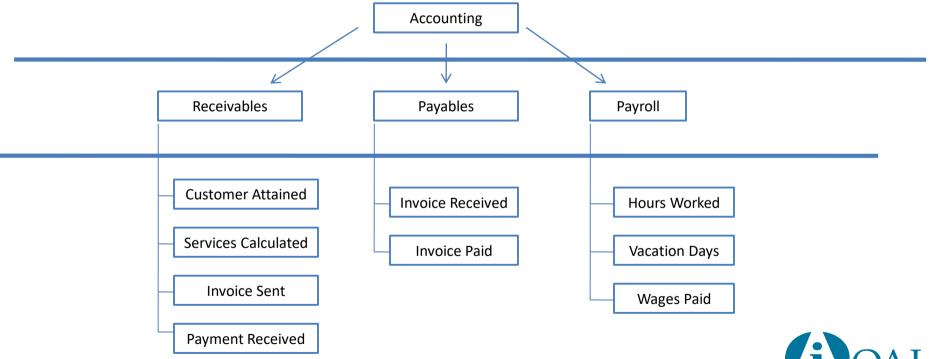


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SDLC – Requirements (Identification and Definition) Sample Application

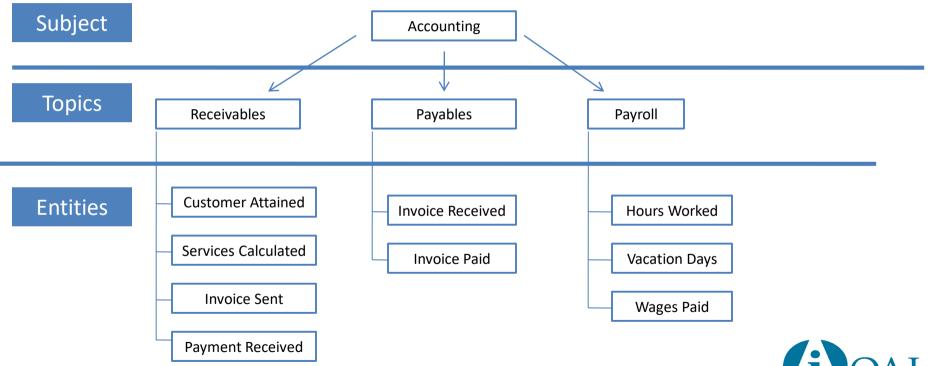






SDLC – Requirements (Identification & Definition) "Data" Context

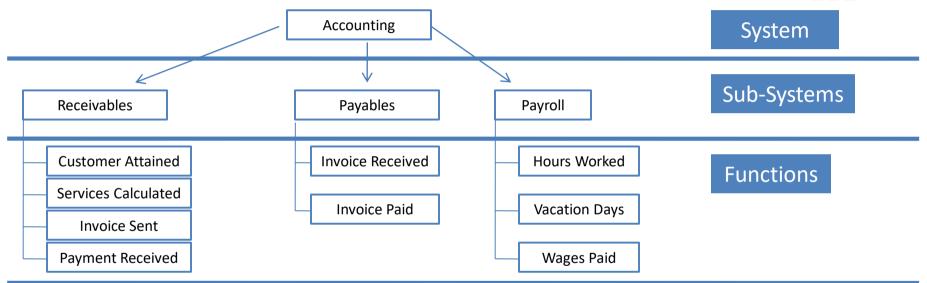






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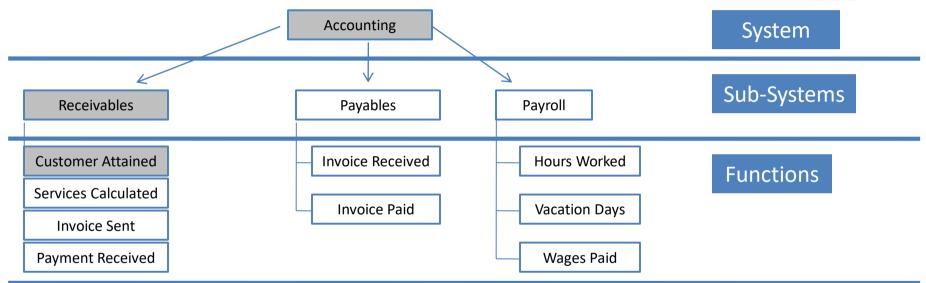






SDLC – Requirements (Identification & Definition) "Process" Context

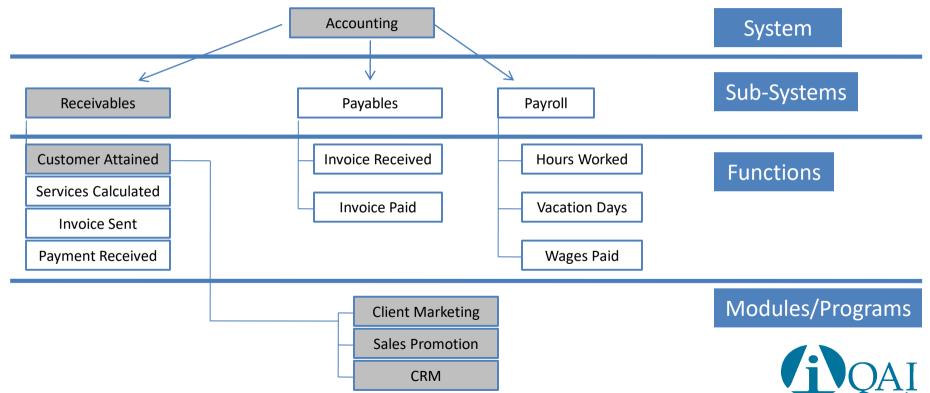






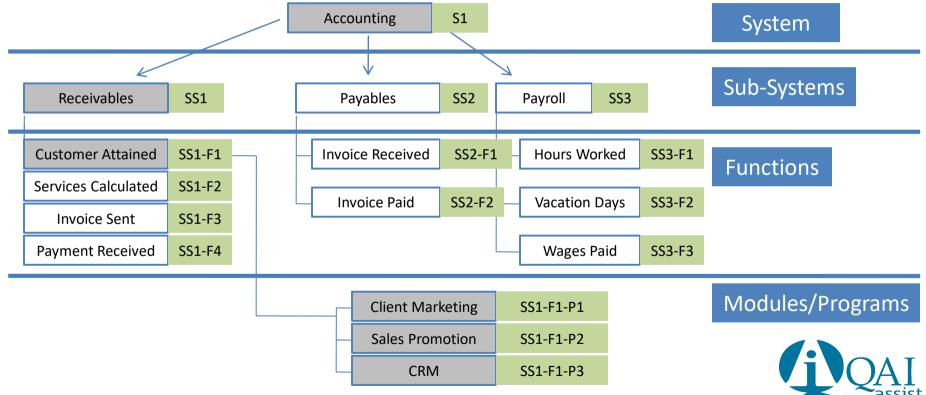
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SDLC – Requirements (Identification & Definition) "Process" – Naming Convention







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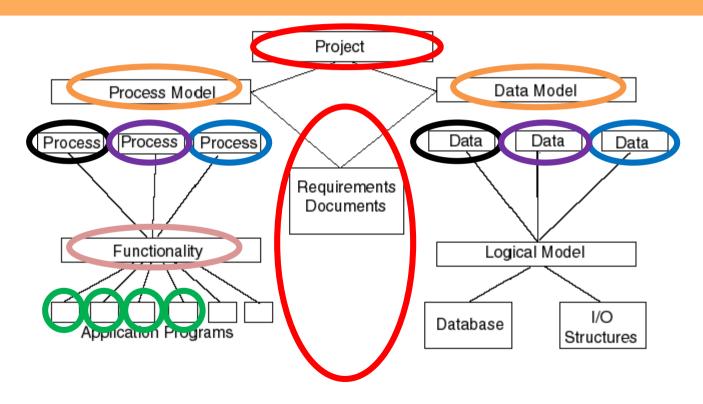
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QAlassist Integrated Methodology



QAlassist Integrated Methodology

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QAlassist Integrated Methodology

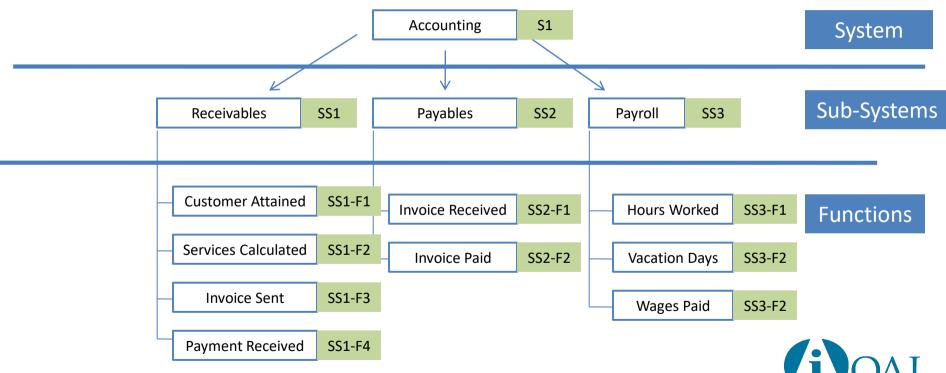


Initiate Plan Execute & Control Closeout Business Case Detailed Business Reqt's Project Charter Project Plan Project Risk Log Report Risk Log Project Risk Log Project Risk Log Report Rest Clust Report Rest Clust Report Rest Clust Report Report Rest Clust Report Report Rest Clust Report Rest

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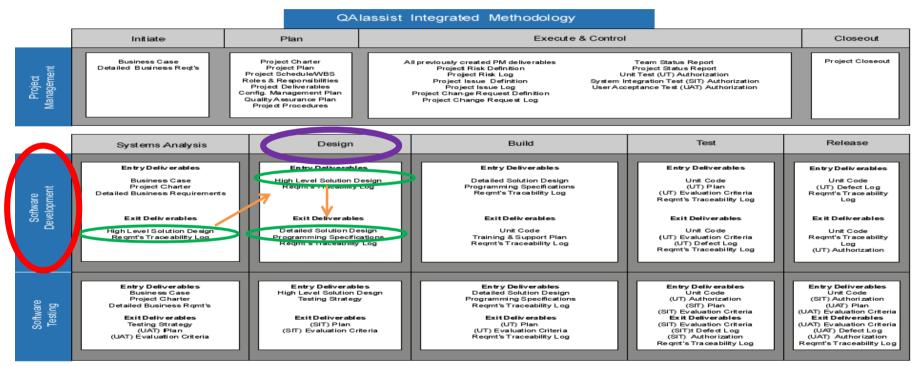
SDLC - Mechanics High Level Solution Design Deliverable (S1, SSX, SSX-FX)





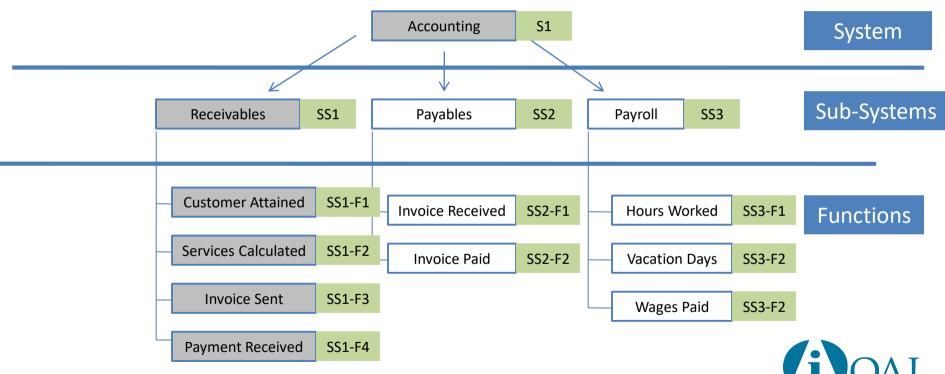
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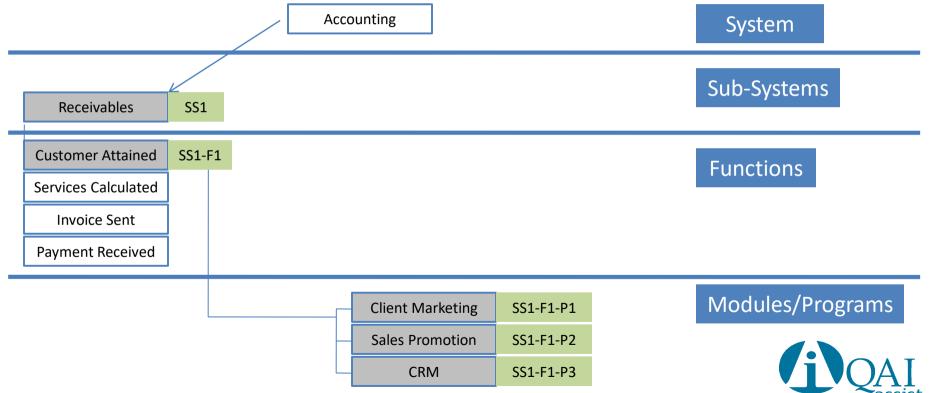
SDLC - Mechanics Detail Solution Design Deliverables (SSX-FX one per)





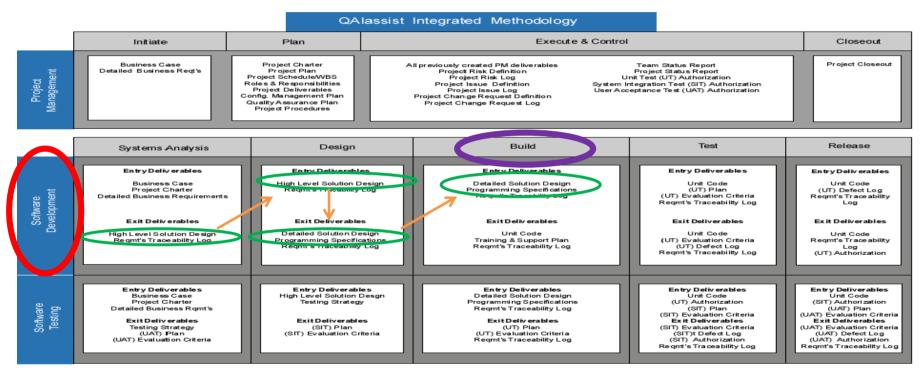
SDLC - Mechanics Programming Specifications (SSX-FX-PX one per)





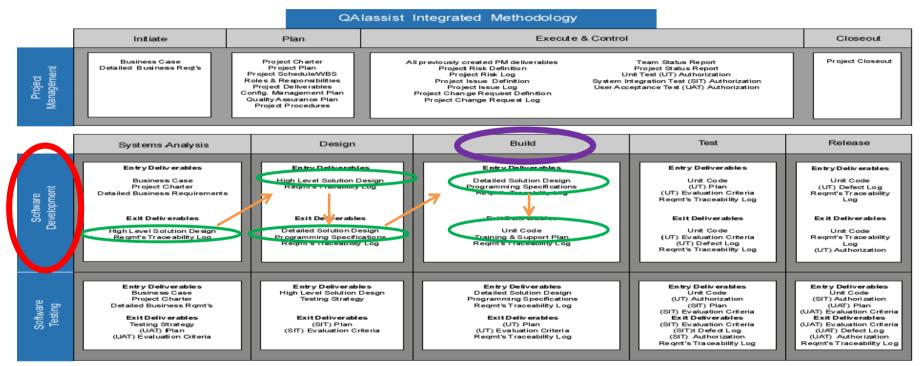
QAlassist Integrated Methodology

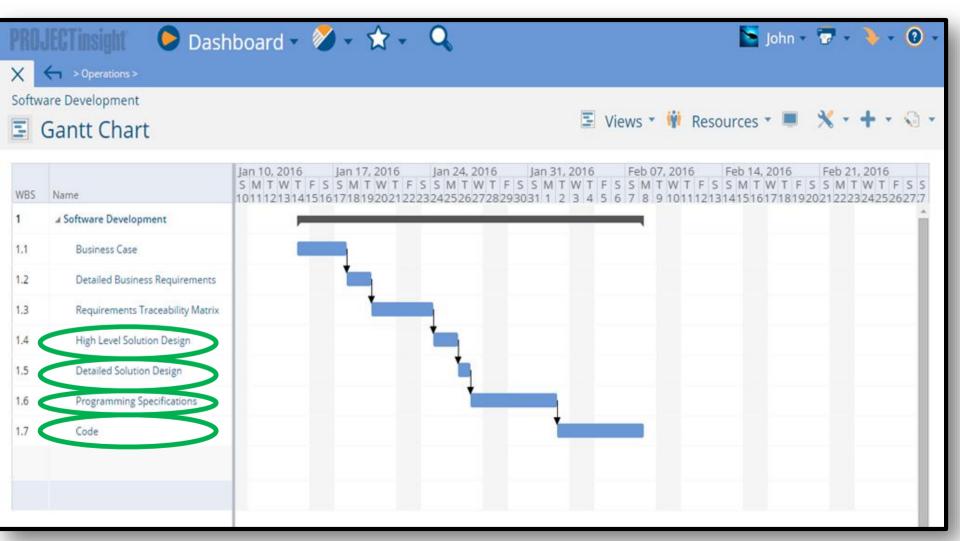




QAlassist Integrated Methodology







Software Development Requirements Deliverables & Dependencies



- High Level Solution Design deliverable
 - Identifies data "Subject" and process "Systems"
 - Identifies data "Topics" and process "Subsystems"
 - Identifies data "Entities" and process "Functions"
- Detailed Solution Design deliverable(s)
 - One deliverable for every "Function" as identified in the High Level Solution Design deliverable
 - Functionality defined (Manual and Automated)
 - All required "Unit Modules/Programs" are identified
- Programming Specification deliverable(s)
 - One deliverable for every "Unit Module/Program" as identified in the **Detailed Solution Design** deliverables
 - Specifics for each "Unit Module/Program" are described





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Software Development Lifecycle (SDLC) Objectives



- Establish a foundation for ongoing collaboration and communication between Business/User
 Community and Information Technology/IT resources
- Business/User community contributes to and authorizes formal requirements and deliverables
 throughout the completion of the project necessary documentation
- Computer Unit Code is developed/built to reflect the authorized and required functionality (design and business requirements)
- Computer Unit Code is successfully unit tested against the authorized design and business
 requirements satisfactory code is made available for additional testing
- End User training is planned and delivered



Software Development Lifecycle (SDLC) Phases

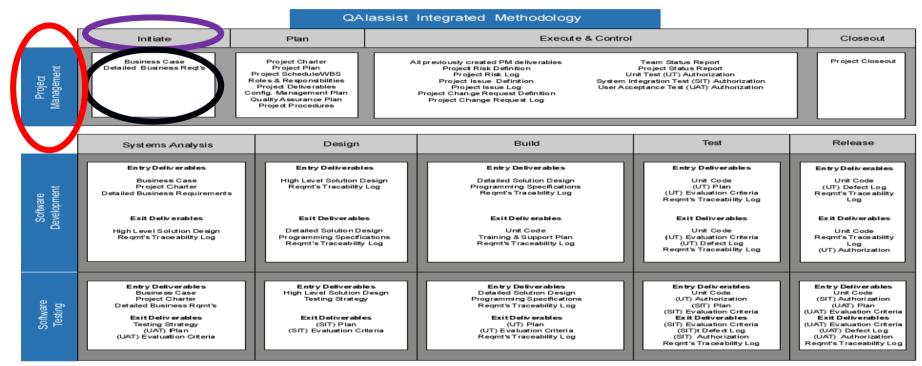


- SDLC objectives (see previous page) are achieved utilizing five phases, they are :
 - Systems Analysis
 - Design
 - Build
 - Test (Unit)
 - Release



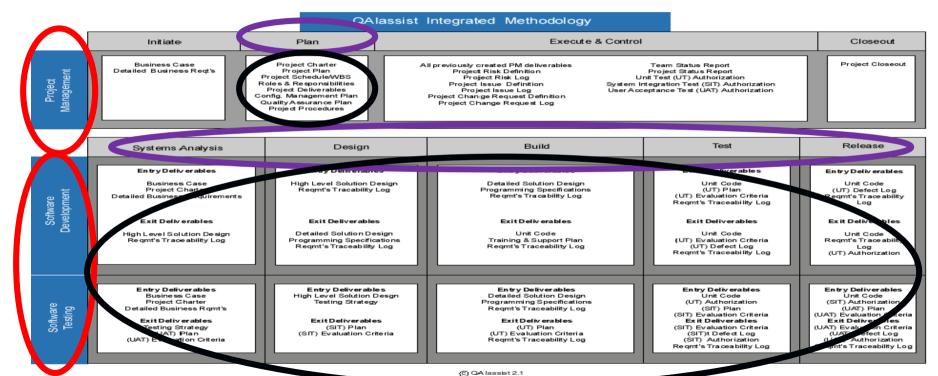
IT Methodology SDLC





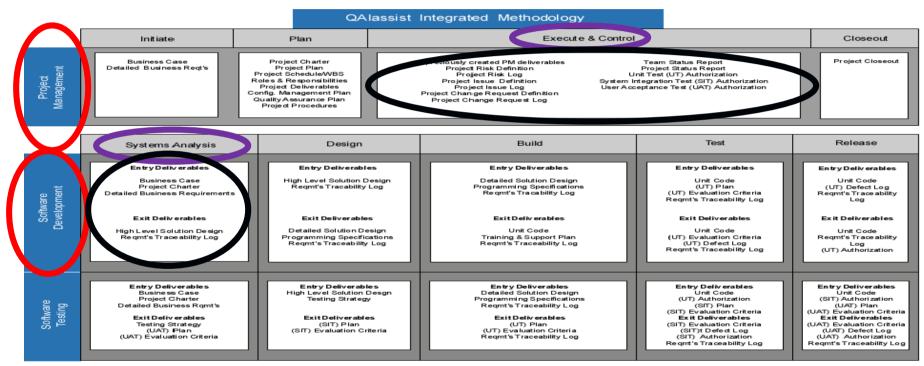
IT Methodology SDLC





IT Methodology SDLC – Systems Analysis Phase





SDLC – Systems Analysis Phase



Objectives

- ensure a formal project exists and has been authorized (Business Case established)
- project team members review and understand project context (deliverables)
- identify/refine initial business requirements
- establish (High Level Solution Design)
- establish (Requirements Traceability Log)

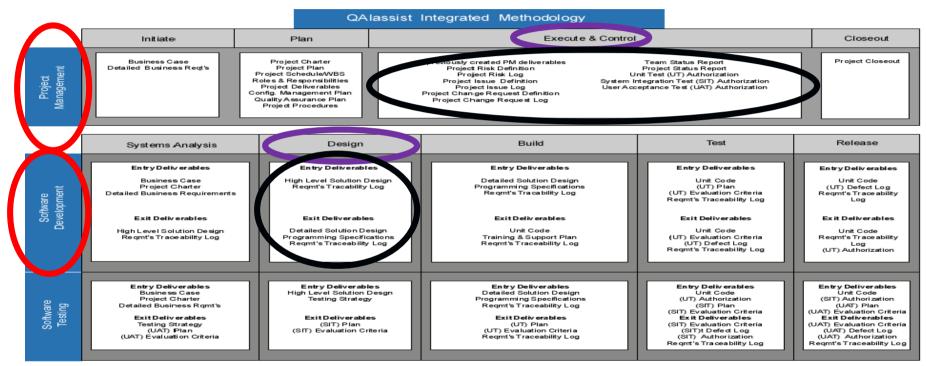
Iterations

- iterative within the phase (waterfall)
- iterative within the lifecycle (agile)



IT Methodology SDLC – Design Phase





SDLC – Design Phase



Objectives

- ensure the application is designed in accordance with the authorized requirements defined during the
 System Analysis phase (High Level Solution Design)
- complete the design of the application (Detailed Solution Design)
- create specifications that reflect the authorized design & business requirements (Programming
 Specification (s))
- maintain (Requirements Traceability Log)

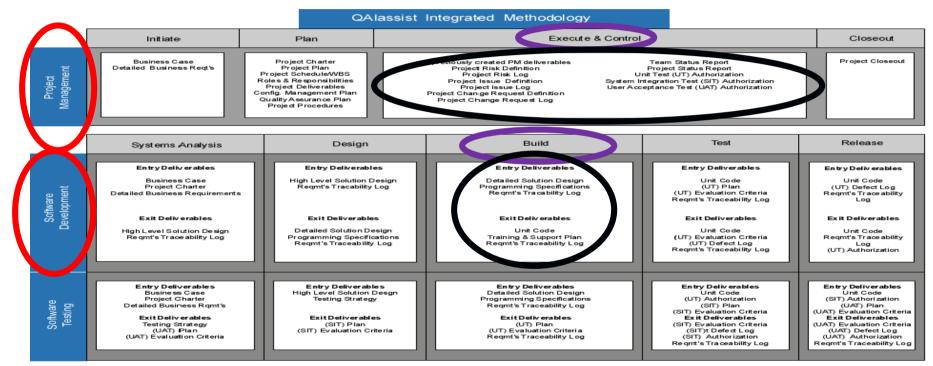
Iterations

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- iterative within the lifecycle (agile)



IT Methodology SDLC – Build Phase





SDLC – Build Phase



Objectives

- develop the required functionality according to the authorized design and business requirements
 (High Level Solution Design, Detailed Solution Design, Programming Specifications)
- create (Unit Code) of the application according to the programming specifications
- develop the (User Training and Support Plan)
- maintain (Requirements Traceability Log)

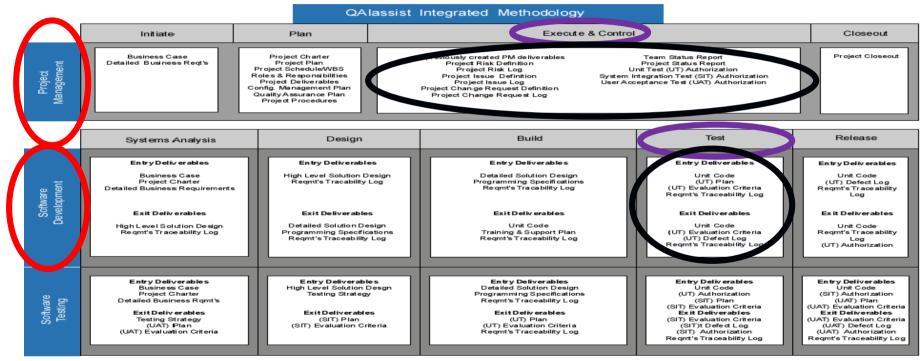
Iterations

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- iterative within the lifecycle (agile)



IT Methodology SDLC – Test Phase





SDLC – Test Phase



Objectives

- perform all unit testing according to (Unit Test Plans from STLC)
- Identify, log (Unit Test Defect Log) and address all conditions that do not satisfy unit testing criteria
- ensure the application/product has been built in accordance with the authorized design, business requirements, (Unit Test Evaluation Criteria from STLC)
- ensure all unit testing deliverables/work products are under configuration management
- maintain Requirements Traceability Log

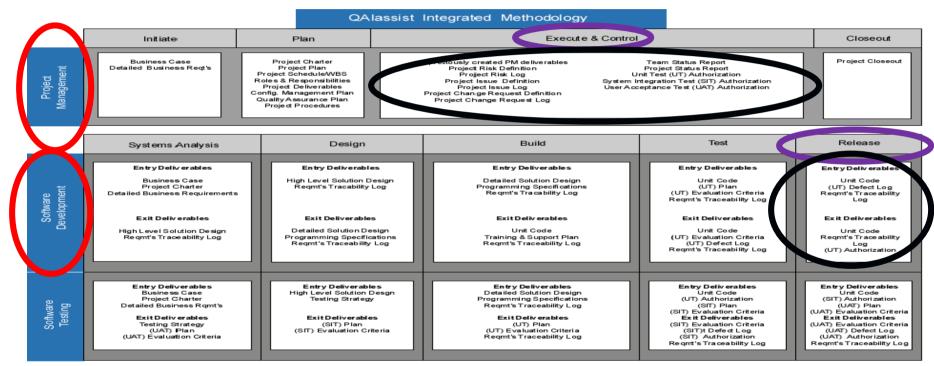
Iterations

- iterative within the phase (waterfall)
- iterative within the lifecycle (agile)



IT Methodology SDLC – Release Phase





SDLC – Release Phase



Objectives

- authorize that all necessary "unit" testing is complete promote the newly built and unit tested
 functionality/application for additional testing (Unit Test Authorization)
- ensure all unit testing deliverables and work products under configuration management
- maintain Requirements Traceability Log
- migrate the application for additional (SIT, UAT) testing

Iterations

- iterative within the phase (waterfall)
- iterative within the lifecycle (agile)



Leverage the Software Development Lifecycle Concepts III - Agenda



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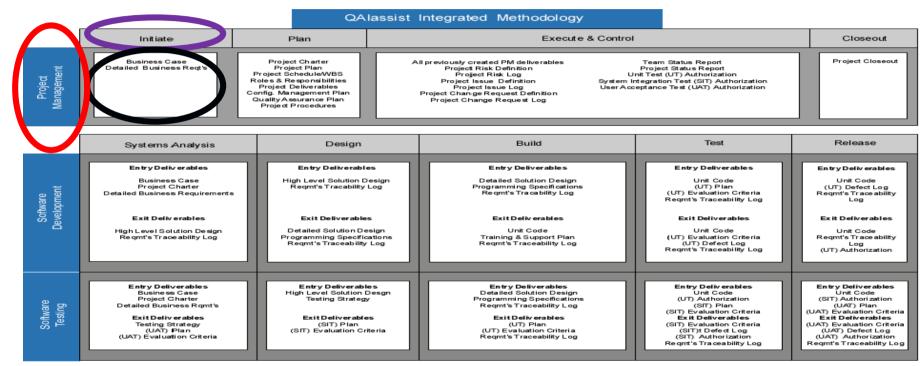


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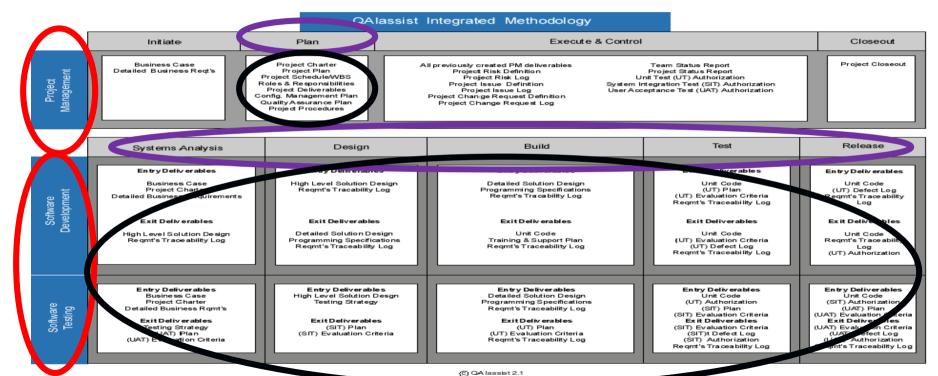
IT Methodology SDLC



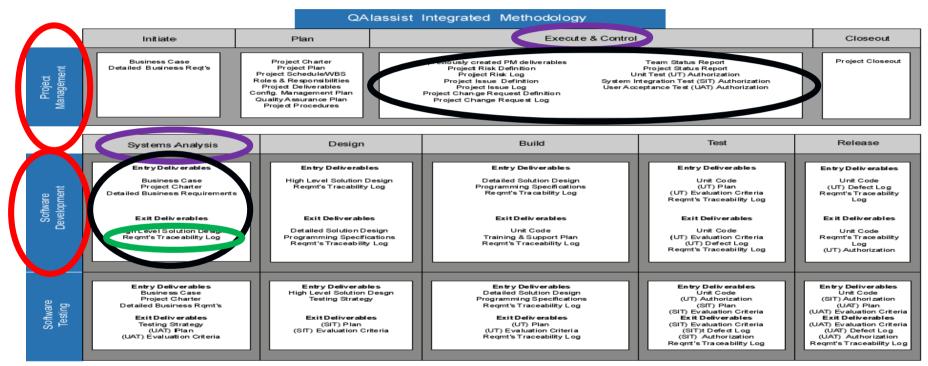


IT Methodology SDLC

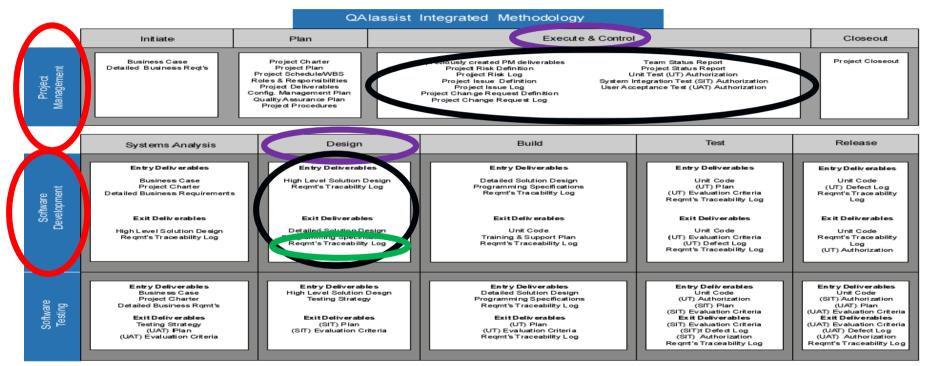




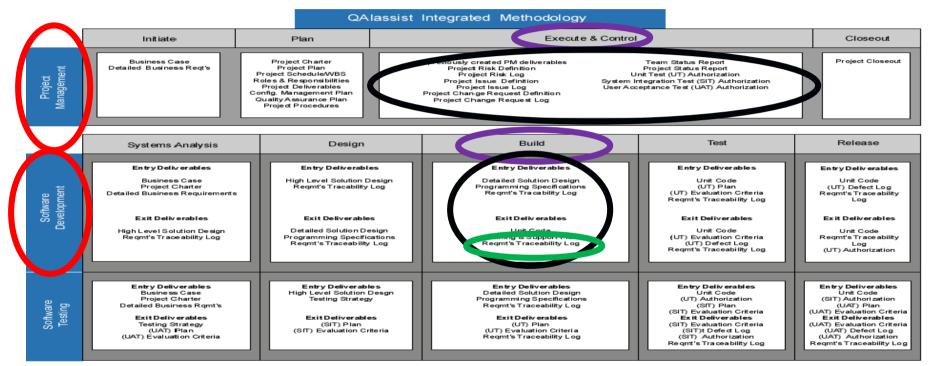




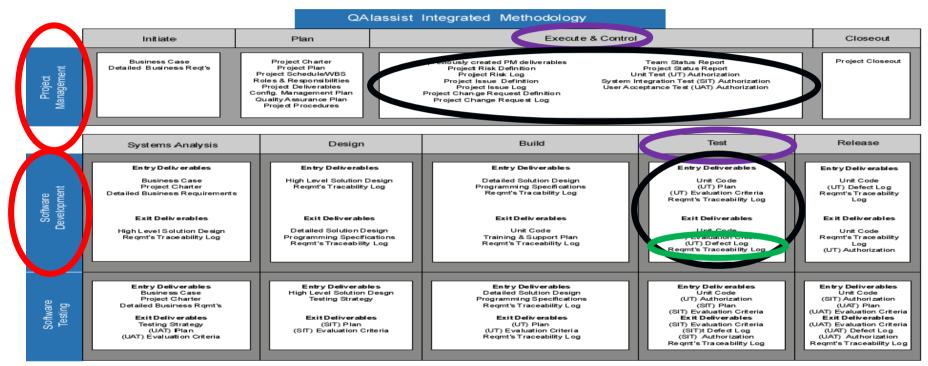




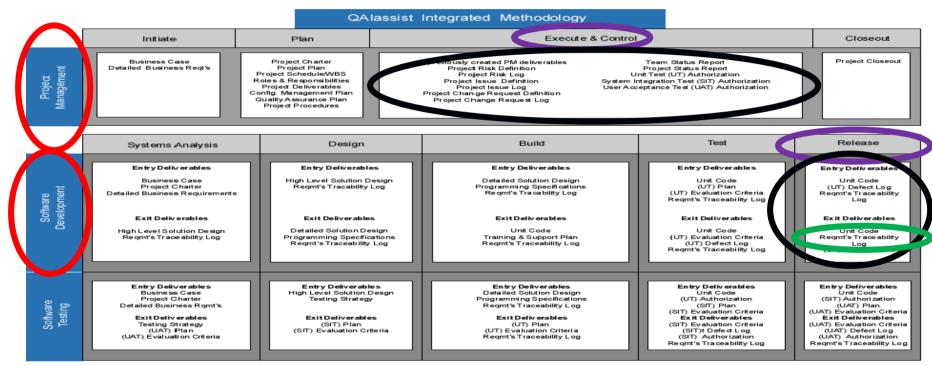












Software Development Lifecycle (SDLC) Requirements Traceability



- User Requirements are dynamic they are defined, clarified and authorized as project evolves
- User Requirements are calibrated (large to small) calibration reflected in deliverables
- User Requirements are maintained throughout life of project documented accordingly
- User Requirements created/established (by SDLC Phase)
 - Systems Analysis (Detailed Requirements, High Level Solution Design)
 - Design (Detailed Solution Design)
 - Build (Programming Specifications)
- User Requirements may be revised/altered/appended to during
 - Unit Testing
 - Integration Testing
 - User Acceptance Testing



Requirements Traceability Log (Matrix) Reference/Access/Updating



SDLC

- Systems Analysis Phase (Detailed Requirements, High Level Solution Design)
- Design Phase (Detailed Solution Design)
- Build Phase (Programming Specification)
- Test Phase (Unit Test Defect Log) ***



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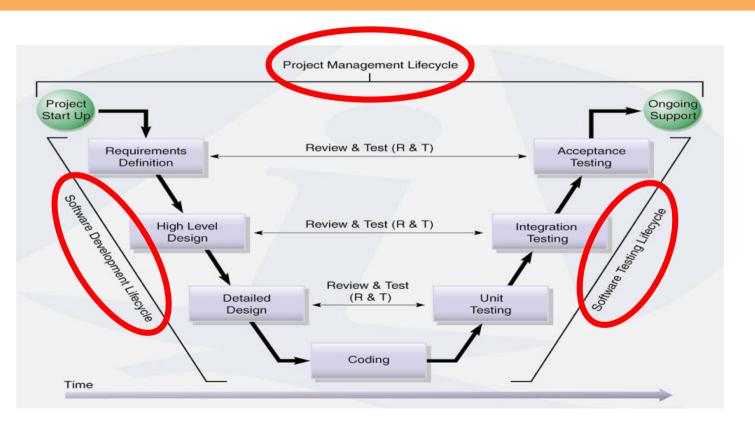


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SDLC Integration







Internal Dynamics - SDLC Interfaces



- Project Management Lifecycle
 - Initial Project Planning (Project Plan and Project Schedule)
 - Ongoing Project Execution (Issue Log, Risk Log, Change Request, Status)

- Software Testing Lifecycle
 - Unit Test Planning, Execution & Authorization



Internal Dynamics - SDLC Interfaces



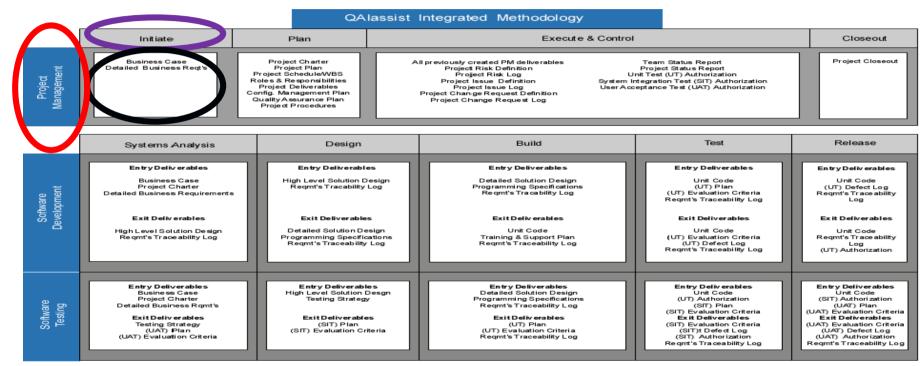
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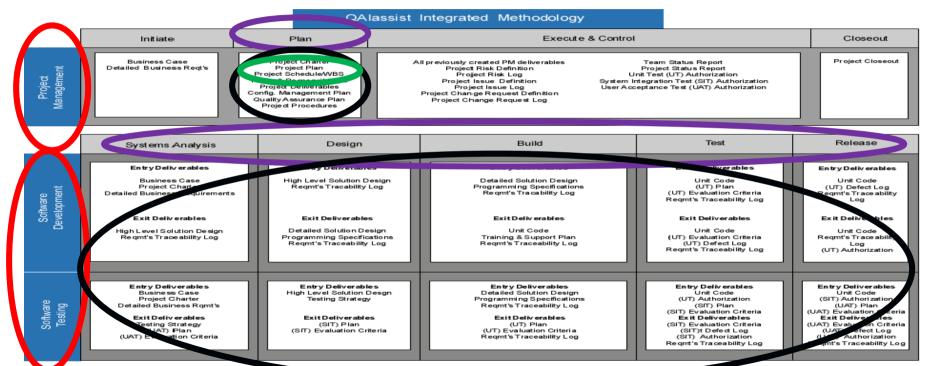
Project Management with SDLC Initial Project Planning





Project Management with SDLC Initial Project Planning





Internal Dynamics - SDLC Interfaces



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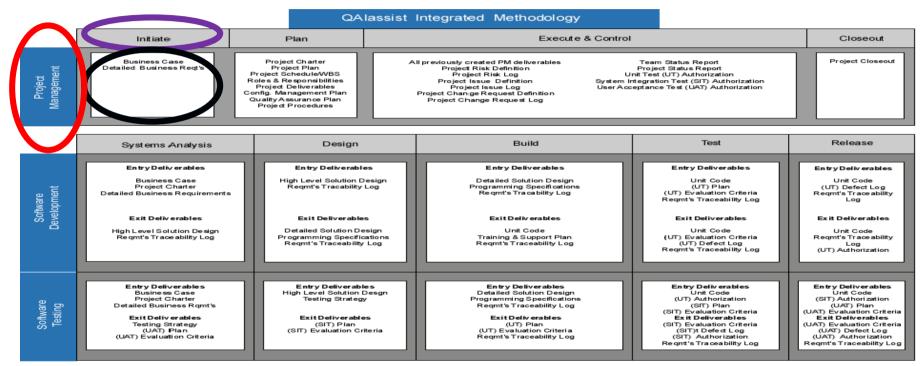


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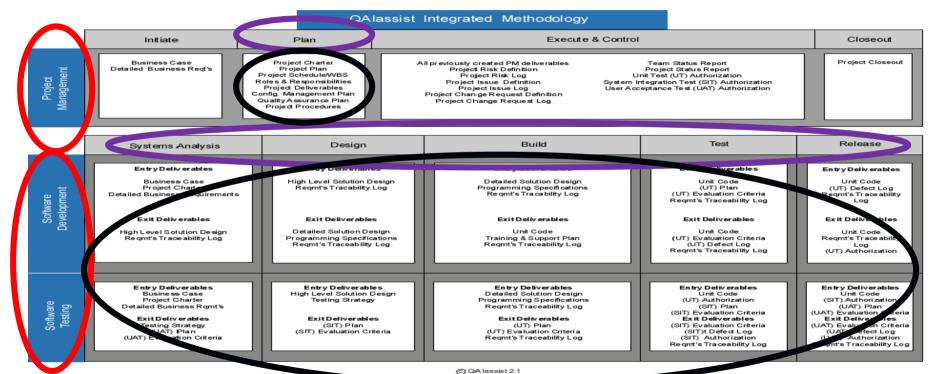
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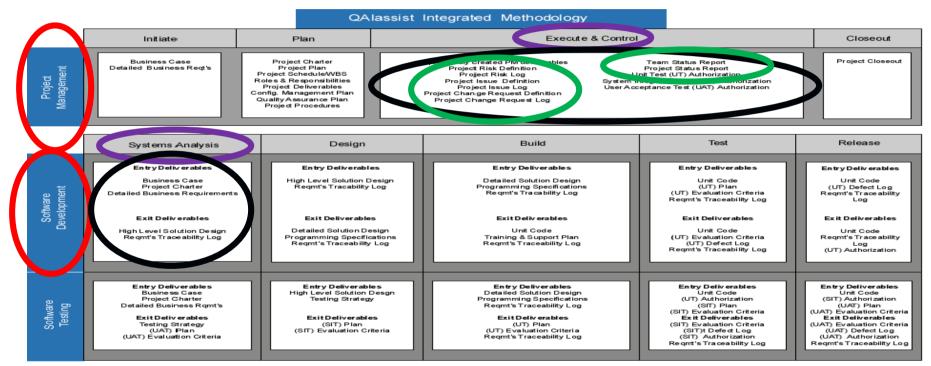




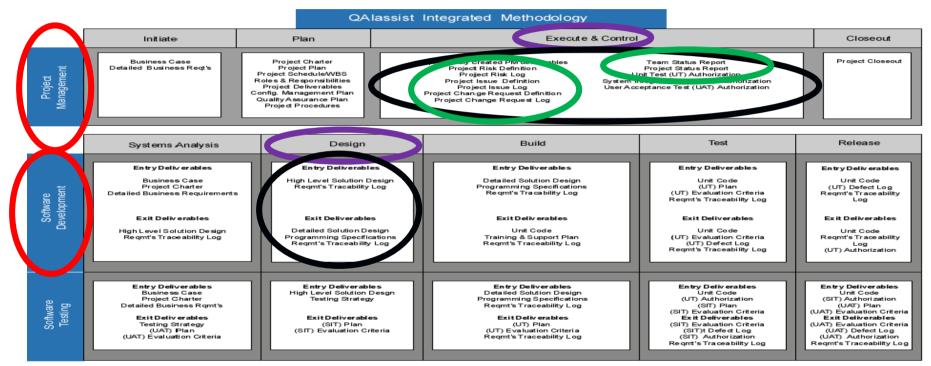




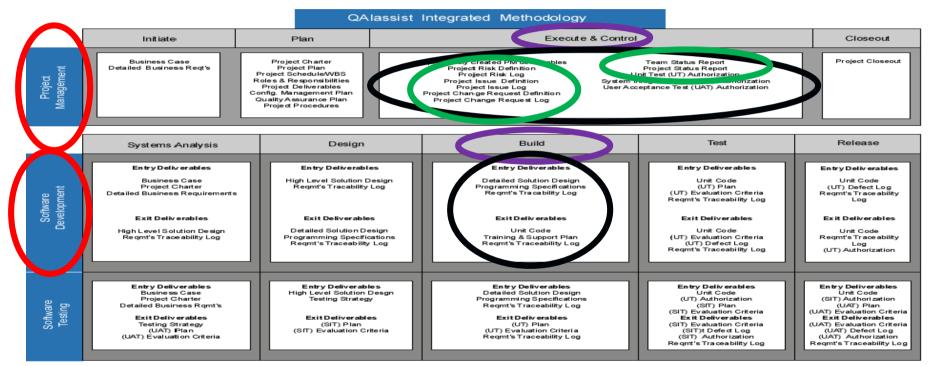




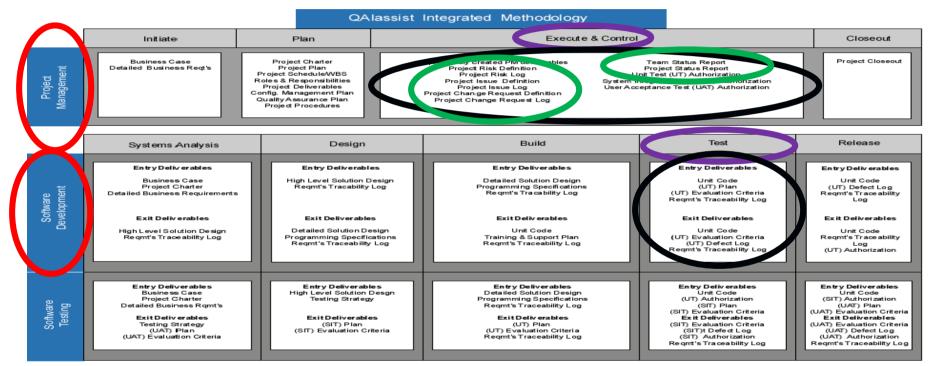




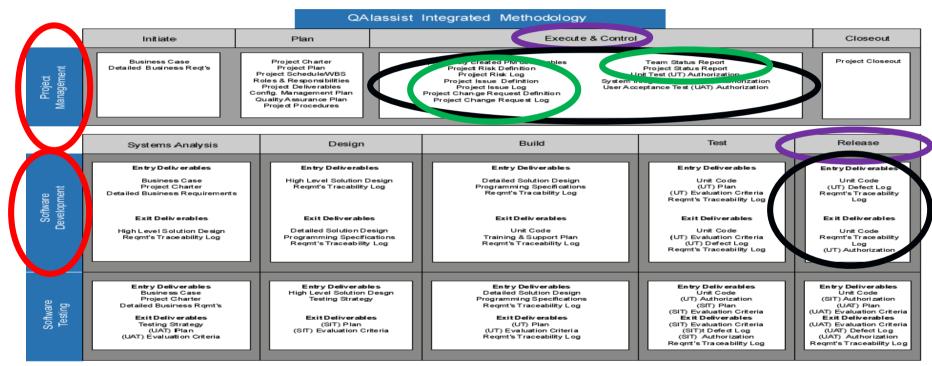












Internal Dynamics - SDLC Interfaces



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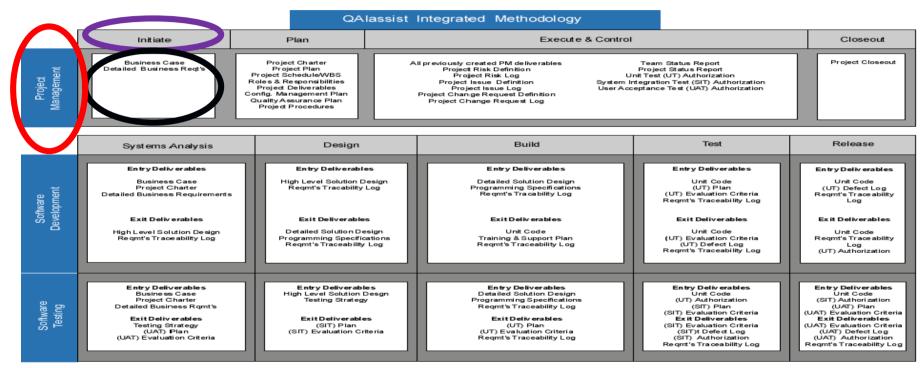


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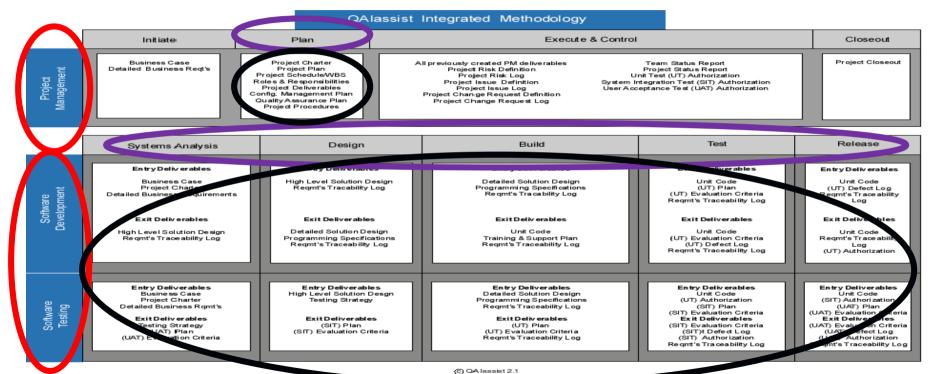
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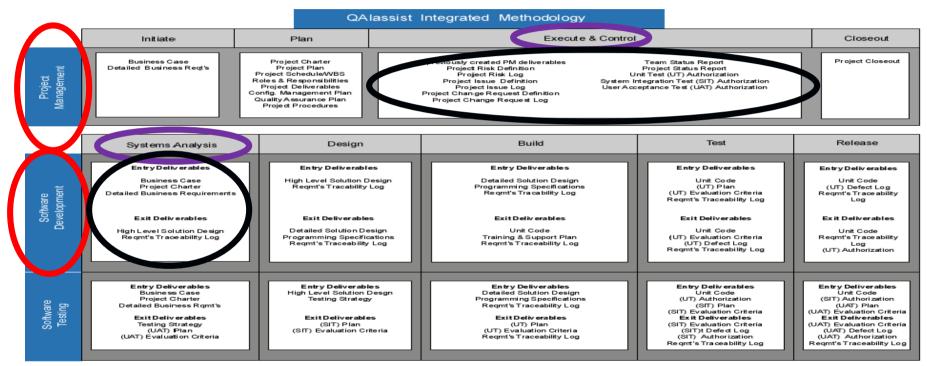




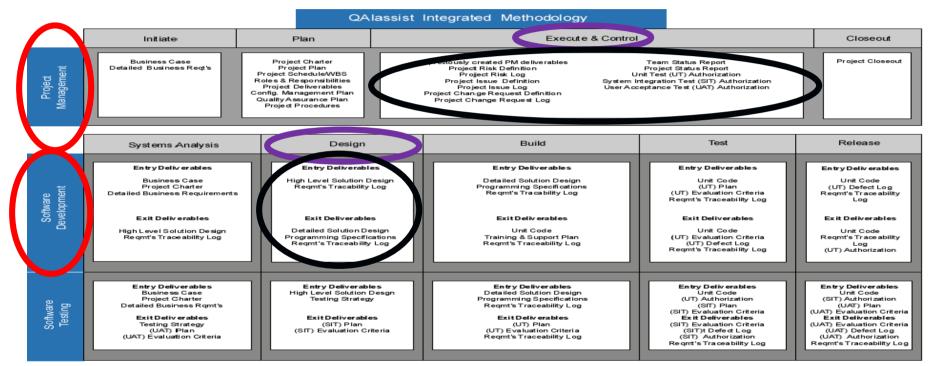




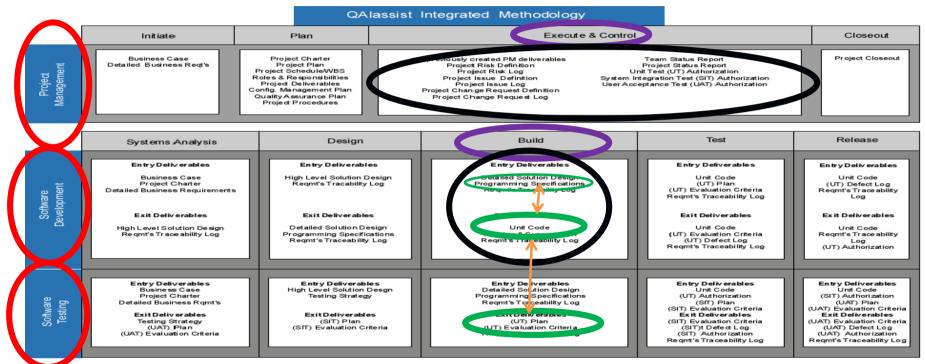




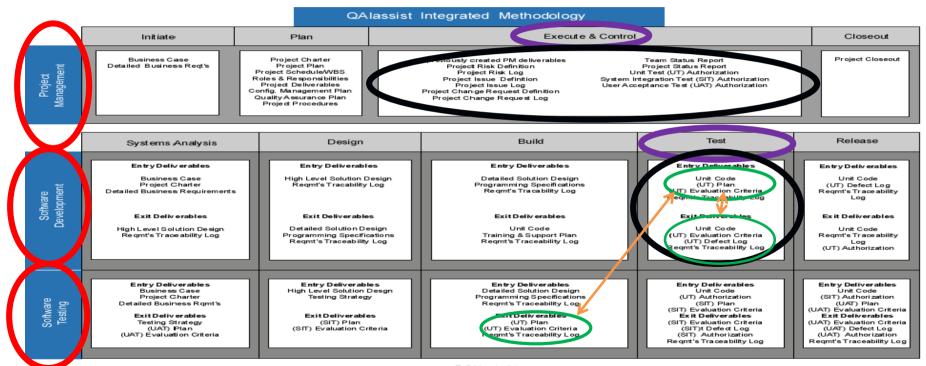




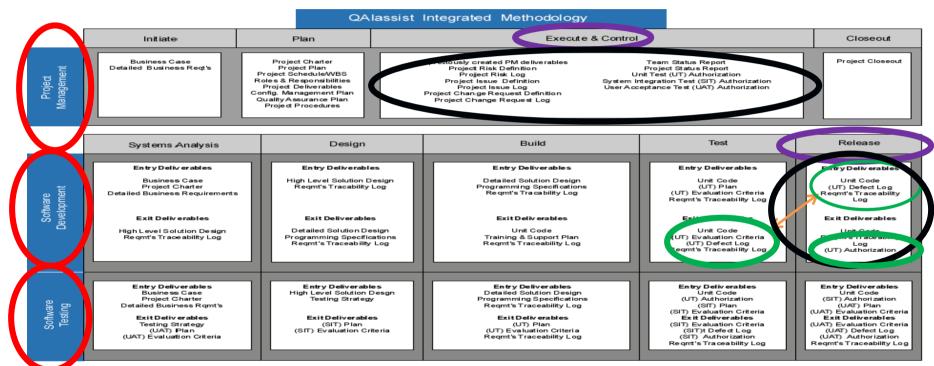






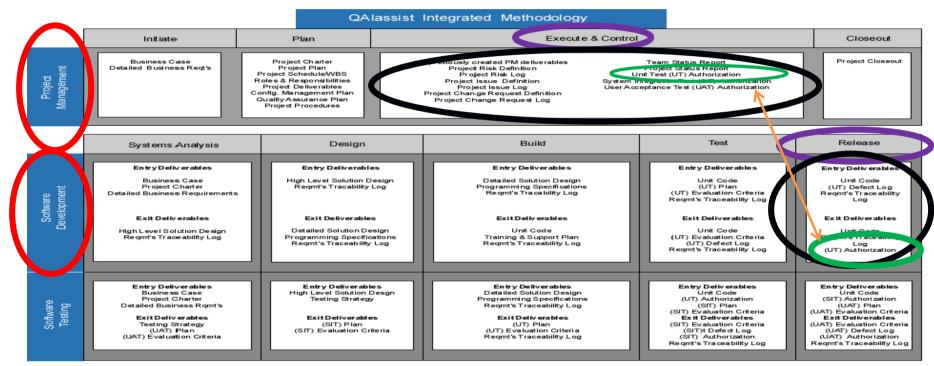






Project Management with SDLC Unit Test Authorization





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Body of Knowledge



- Methodology/Lifecycle/Deliverables www.qaiassist.com
 - Project Management, Software Development, Software Testing
- Body of Knowledge (Library) www.qaiassist.com
 - Methodology Origin origins of methodology identifies the differences
 between the path we take (noun) and how we proceed (verb) down that path
 - Context & Overview provides a general overview of IT Methodology and how it can be applied within an organization
 - Deliverable Descriptions provides general descriptions for all the deliverables of the QAlassist Integrated Methodology



Until Next Session...



- Keep Posing your Questions call or send your questions in (Denise and/or Cameron)
- Explore the QAlassist Body of Knowledge refer to the QAlassist Body of Knowledge (sample deliverables, whitepapers, blog articles) – (www-qaiassist.com)
- QAlassist Practitioner find out more about becoming QAlassist certified "Foundation", "Practitioner"
- ► Tell your friends tell your friends, coworkers and colleagues about the Project Insight/QAlassist webinars invite them to join us at the next session



2017 Schedule



The 3rd Wednesday of Every Month

8:00 am Pacific - 11:00 am Eastern Time

IT Methodology Concepts (60 mins)

This series of six webinars will be presented on a bi-monthly basis. Each webinar
will provide you with a context, overview, terminology and general understanding
of information technology (IT) methodology.

IT Methodology – Tutorials (60 mins)

 This series of five webinars will be presented on a bi-monthly basis. Each session is designed to offer a more "hands on" perspective – bridging the concepts into a practical utilization.

2017 "Concepts" Schedule



- The 3rd Wednesday of Month (Jan, Mar, May, Jul, Sept, Nov)
 - 8:00 am Pacific 11:00 am Eastern Time
- IT Methodology Concepts (60 mins)
 - Methodology for the IT Landscape (Jan)
 - Apply PM Fundamentals to IT (Mar)
 - Leverage the Software Development Lifecycle (May)
 - Explore the Software Testing Lifecycle (Jul)
 - Incorporate Organizational Process Governance (Sept)
 - Implementing IT Methodology (Nov)



2017 "Tutorials" Schedule



- The 3rd Wednesday of Month (Feb, Apr, Jun, Aug, Oct)
 - 8:00 am Pacific 11:00 am Eastern Time
- IT Methodology Tutorials (60 mins)
 - Applying IT Methodology to Project Initiation (Feb)
 - Project Planning & Design with IT in Mind (Apr)
 - Executing Projects with IT Methodologies (Jun)
 - Project Control & Verification (Aug)
 - Project Close & Delivery (Oct)



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