

Instructional designer perspective v0.1

1. Determine value
 - a. Capabilities
 - i. Evaluate audience
 - ii. Evaluate scope of use
 - iii. Canvas similar objects
 - iv. determine type of use
 - v. Determine IP rights for design
 - vi. protect IP rights
 - b. Data Elements
 - i. Initial Goals
 - ii. Industry/Peer Surveys
 - iii. Assets and Contents
 - iv. Reposed Asset Catalog
 - v. List of Asset Catalogs
 - vi. Intellectual Property Law Cheat Sheets
 - vii. Student Demographics
 - viii. Current Course Analytics
2. Determine pedagogical goals
 - a. Capabilities
 - i. Analyse gaps
 - ii. Specify competencies
 - iii. Specify measurements
 - iv. Determine learner characteristics
 - v. Review existing catalogues of competencies
 - vi. Formalize goals
 - vii. Vet goals
 - b. Data Elements
 - i. Existing measures
 - ii. External requirements
 - iii. Courses
 - iv. Competencies
 1. Internal
 2. Professional/external
 - v. Gap analyses
 - vi. Degree rules
 - vii. Course/program catalog
 - viii. Learner competency mappings
3. Designing activities
 - a. Capabilities
 - i. Assess modality (synch, asynch)
 - ii. Assemble team
 - iii. Collaborate
 - iv. Assemble instructional-learning activities in support of goals
 - v. Develop learning map and sequencing
 - vi. Determine authoring platforms
 - vii. Identify associated competencies
 - viii. Select appropriate activity types
 - ix. Design metrics and analytics
 - b. Data elements
 - i. Team roster and skill inventory
 - ii. IP rules and policies
 - iii. Modality list
 - iv. Learner competency mappings
 - v. Learning map & sequence
 - vi. Competency catalogs
 1. Internal
 2. Professional/external
 - vii. Inventory of learning tools
 - viii. Analytics from previous courses
4. Assembling content
 - a. Capabilities
 - i. Determine whether to build or buy (or adopt/adapt)
 - ii. Assessing quality of content (assets)
 - iii. Test that it meets goals
 - iv. Provide access to existing content repositories
 - v. Determine rights and entitlements
 - vi. Obtain rights for external content
 - vii. Protect IP rights.
 - b. Data Elements
 - i. Modality list
 - ii. Best practices for tools
 - iii. List of delivery systems
 - iv. Usage policies/best practices for content
 - v. Previous analytics
5. Design Assessments
 - a. Capabilities

- i. Match Outcomes to Assessment Types
 - ii. Develop Assessment Criteria
 - iii. Develop Assessments
 - iv. Sequence with Activities and content
 - v. Match assessments to competencies and goals
 - vi. Validate efficacy
 - b. Data Elements
 - i. Design/pedagogical goals
 - ii. Assessments
 - 1. Rules (timed, retries, etc.)
 - iii. Assessment types
 - iv. Competencies
 - v. Outcomes
 - vi. Outcome descriptions
 - vii. Learning map/sequence
 - viii. Criteria
 - 1. Evaluation Instructions
 - 2. Rubrics
 - 3. Scalars
- 6. Implement
 - a. Capabilities
 - i. Publish
 - ii. Activate
 - iii. Prepare consumers (train/educate)
 - iv. Document practices/instructions
 - v. Administer assessments
 - vi. Collect outcomes
 - vii. Entitle usage
 - viii. Track usage/consumption
 - b. Data Elements
 - i. Documentation/training materials
 - ii. Sequence map
 - iii. Learning objects/assets
 - iv. Usage data
 - v. Usage policies
 - vi. Learning context (class or other types, e.g., MOOC)
 - vii. Outcomes
 - viii. Formats
 - ix. Assessments
 - x. Asset catalog
 - xi. Asset packages
 - xii. Entitlements
- 7. Evaluate
 - a. Capabilities
 - i. Survey
 - ii. Analyze outcome data
 - iii. Conduct focus groups
 - iv. Peer review
 - v. Collect & analyze analytics
 - 1. Learner
 - 2. Usage
 - 3. Instructional
 - vi. Compare iterations
 - b. Data Elements
 - i. Surveys
 - ii. Survey results
 - iii. Outcomes
 - iv. Competencies
 - v. Peers
 - vi. External assessments
 - vii. External assessment results
- 8. Repose content
 - a. Capabilities
 - i. Store
 - ii. Retrieve
 - iii. Tag/manage metadata
 - iv. Abstract/reuse
 - v. Secure
 - b. Data Elements
 - i. Assets
 - 1. Attributes
 - 2. Lifecycles
 - ii. Asset catalog
 - iii. Tag metadata
 - iv. Package
 - v. Maintenance Schedules
 - vi. Versioning Scheme
 - vii. Entitlements

ITANA Reference Architecture for Teaching and Learning
Instructional designer capability map (draft)
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