DESIGNING CURRICULA

INTRODUCTION

Designing Curricula refers to the design of frameworks for interrelated learning experiences, activities, and material intended to build competence for participants over an extended period. Learning experiences might happen faceto-face, online, or a blend of both. An effective curriculum is more than a collection of learning experiences. It may include other experiences, such as structured observation and practice, internships and job rotations, or informational materials, such as guidebooks and job aids.

Designing a curriculum is important when:

- People need to learn a body of knowledge or gain a comprehensive set of skills or competencies.
- The policies, processes, or systems of an industry, organization, or line of work change substantially (for example, the digitization of an industry).
- A number of individuals or cohorts are hired for a role.
- An existing role is changing significantly or new products and services are being launched.
- The learning path to progress from one career or job level to the next, or to maintain currency in a profession, needs to be defined.

The curriculum makes the high-level training strategy more concrete and tactical and acts as a visual roadmap to progress through the learning. The roadmap shows linkages among the curriculum's various components, from business measures and program goals to performance and other outcomes, learning objectives, related learning activities, and evaluation.

Business measures help determine whether the learning has helped the organization close its operational gaps. Performance objectives address the specific behaviors participants need to adapt in the "real world." Ideally, if participants adapt the new behaviors, it should have the combined effect of closing business gaps. Program goals address broader issues of personal and professional development that can be harder to describe in observable and measurable terms, for example, "develop a professional identity" or "become a champion for the product line." Program participants achieve these goals as they go through the curriculum. Performance outcomes differ from learning objectives, which describe what people do while learning and usually apply to just one component of the curriculum. A well-designed curriculum aligns all these different goals and measures with the content and activities of the program.

Competent curriculum design increases the likelihood that you:

- Sequence learning objectives and performance outcomes, so that participants can start applying new knowledge on the job as soon as possible.
- Sequence learning to optimize retention.
- Identify and integrate other goals (for example, personal development or understanding) where feasible.
- Identify the most effective formats and channels for participants.
- Identify a specific path for each job role or experience/education/skill level.
- Identify ways to potentially reuse components of the curriculum at the start of the project, thereby promoting efficiency in developing experiences and materials.
- Specify guidelines, templates, and similar resources to promote consistency during development.
- Integrate cognitive and psychomotor learning effectively.
- Pilot and test various components of the curriculum before full-scale development or rollout of all the experiences and materials.

Effective curriculum design requires you to approach learning as an overall system with the various components working together to develop performance.

In emerging markets, the local culture, economic circumstances, availability of technology, reliability

of infrastructure, and accommodation of personal circumstances, educational levels, and post-training support requirements add complexity to the task of *Designing Curricula*. Addressing these challenges directly results in a curriculum that is better suited to participants' circumstances and more feasible for them to complete.

As you prepare to design, ask yourself the following questions:

- How can you adapt the curriculum and the program content for the local context and audience?
- What digital solution would enhance participants' learning (for example, webinars, social media)?
- How can you design a program that is affordable and sustainable despite potential economic fluctuations?
- Do participants need safety and security training/briefings?
- How can the program contribute toward development of personal resilience and the confidence of participants?
- What coaching or mentoring services can support application of learning?
- What remedial training or assistance might you need to bolster participants' baseline skills to acceptable levels for the program?

The decision to design a curriculum is usually the result of a preliminary assessment of performance needs. However, it is also important to identify specific performance outcomes, which involves assessing performance needs in more detail, and so we include this as one of the initial competencies in this category. *Designing Curricula* is a complex process that requires extensive experience in assessing performance needs and designing learning experiences. For this reason, experienced business learning specialists usually perform curriculum design.

The output for the *Designing Curricula* competency is a Design Document. The Design Document translates the high-level training strategy into a development guide with the tactical details required to create the curriculum or learning experience. It provides lower-level learning objectives, learning experience outlines, and summaries of learning activities within a learning experience. It identifies the duration of each section of the learning experience and identifies how to measure successful completion of each related learning objective. In essence, it is a blueprint or a roadmap for the *Designing Learning Experiences* competency.

For additional information on *Designing Curricula*, when conducting training in fragile and conflictaffected situations and gender-inclusive training, please refer to the FCS and gender supplements at the end of this guide.

DESIGNING CURRICULA

COMPETENCIES AND SUPPORTING COMPETENCIES | This section contains information about the importance of mastering the competencies, tasks for each supporting competency, key outputs, and assessment criteria.

1. I	DENT	IFY GOALS, PRINCIPLES, AND CONSTRAINTS	
	1a.	Consult with stakeholders to clarify the business need and goals of the curriculum.	18
	1b.	Establish overall design principles	
	10. 1C.	Profile identified groups of participants	
	1d.	Consider potential of available technology to support the curriculum	
	1e.	Identify interdependencies and constraints	
		outputs and assessment criteria	
2 ([°] RFA1	TE A HIGH-LEVEL ROADMAP FOR THE CURRICULUM	51
2.		Identify desired performance and other outcomes	
		Sequence performance and other outcomes	
		Identify potential learning and other performance solutions for achieving desired outcomes	
	2d.	Determine the sequence of learning experiences for identified groups of participants	
	2e.	Determine how technology and tools can support the curriculum	
		outputs and assessment criteria.	
2	DESIG	N A DETAILED ROADMAP FOR THE CURRICULUM	53
ر	عم.		
	зb.	Clarify format for each curriculum component	
	30.	Determine delivery channel for each curriculum component	
	3d.	Develop initial content inventory for the curriculum	
	зe.	Plan learning environment for the curriculum	
	Key	outputs and assessment criteria	
4 .	PROT	OTYPE CURRICULUM COMPONENTS	56
		Design at least one example of each curriculum component as a prototype	
		Determine style guidelines for ensuring consistency across subsequent design and development.	
	4C.	Develop templates based on the validated templates and guidelines	56
		outputs and assessment criteria	
5. I	PREPA	ARE TO IMPLEMENT AND SUSTAIN THE CURRICULUM	
	5a.		
	5b.	Plan for validation of the curriculum	
	5C.	Plan for evaluating both the components and the curriculum as a whole	58
	5d.	Plan for maintaining the curriculum	59
	Key	outputs and assessment criteria	

1. Identify goals, principles, and constraints

Importance

The impact of mastering these competencies is that you:

- Base design on both the explicit and implicit goals of the stakeholders.
- Follow established best practices in design.
- Base design on the real needs of the various learner groups.
- Identify interdependencies and constraints early in the design process.

Supporting competencies and tasks

These tasks contribute to mastery of the supporting competencies (in bold). Put a check mark next to each task or subtask within the supporting competency as you complete it:

1a	Consult with stakeholders to clarify the business need and goals of the curriculum			
	Determine the stakeholders to involve			
	Confirm with stakeholders the need and measures that the curriculum is intended to affect (for example, generate revenue, contain expenses, comply with government/industry/organization guidelines)			
	Identify the impact the business need has on resources available to develop the curriculum			
	Confirm the potential goals (for example, minimize time to competence, increase engagement, develop organization values, compete for talent, increase profile of learning function)			
	Resolve areas of disagreement among stakeholders			
1b	Establish overall design principles			
	Explain the rationale for the chosen educational philosophy, design approach, and design process, for example:			
	Activities to reinforce participants' persistence, self-esteem, and confidence			
	ightarrow Activities to build participants' confidence, leadership skills and problem-solving skills 🌍			
	Incorporating women role models			
	Incorporating coaching and/or mentoring			
	Incorporating social networks and peer learning			
	Consider any financial constraints of the program 🚳			
	Align learning with social and cultural norms 🚳			
	Determine security precautions for facilitators and participants 🚳			
	Embed flexibility in the program design 🚳			
	Consider time constraints of participants 👰			
	Consider participants family responsibilities 🧐			

3. Design a detailed roadmap for the curriculum

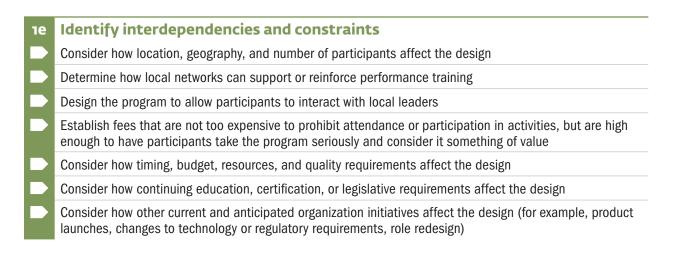
4. Prototype curriculum components

5. Prepare to implement and sustain the curriculum

1C	Profile identified groups of participants
	Profile various groups of participants (for example, participants with or without previous experience, participants hired internally or externally, different demographic groups, participants with different goals)
	Consider decision-making/agency and how to engage those family members who determine participation in your program 💿
	Identify resources available to participants (for example, physical work environment, interactions with others, available tools, capabilities of mentors)
	Determine the desired proficiency levels of the participants once they successfully complete the curriculum (for example, "qualified to operate the machinery" or "power user")
	Identify remedial training or assistance if education levels need bolstering
	Design optional pre-program courses to bring participants' baseline skills up to acceptable levels for the program
ıd	Consider potential of available technology to support curriculum
	Identify potential for producing learning experiences and materials for either face-to-face or online learning using specialized authoring and audiovisual production technologies
	Determine suitable digital learning delivery methods that could reduce the need for face-to-face contact and travel and digital tools for applying a skill or knowledge from the training
	 Determine how various digital solutions would meet the needs of participants, for example, their learning preferences or access to digital tools for reference after the program
	 Evaluate whether there are barriers to overcome to deliver trainings via technology for participants (for example, not knowing how to use technology, trust in technology, etc.)
	 Determine whether the use of digital solutions would enable more participants to join the program or receive program materials (for example, scaling the delivery and multiplier effect)
	Determine viable digital solutions for participants 6
	 Identify the owners of the access to technology and whether permission is needed from anyone (if so, find out from whom and what kind of permission)
	Identify who to involve in digital support
	Identify communication channels to reach prospective participants and inform them of upcoming training
	• Use language in the marketing materials that is appropriate for the target group
	Identify stakeholders who could promote this training
	Identify potential for electronically (or digitally) managing development workflows and providing content with enterprise learning technologies
	Identify potential for managing, personalizing, and tracking participants' learning experiences and materials with enterprise learning technologies
	Identify potential for ongoing communication and learning offered through social media
	Identify potential for distributing learning experiences and materials by internet-connected devices (for example, smartphones, tablets, laptop computers)

Identify organizational policies on use of technology that could affect design of the curriculum

49



Key outputs and assessment criteria

KEY OUTPUTS	ASSESSMENT CRITERIA
Summary section of the Design Document	Section describes briefly the design principles that are central to the learning approach for the curriculum
	Section summarizes the sequence of the learning experiences within the full curriculum
	List of learning experiences identifies the target audience and profile for each experience
	Section describes the required technologies for the learning experiences
	Section describes the link between each learning experience and related non- learning solutions (for example, mentoring, coaching)

2. Create a high-level roadmap for the curriculum

Importance

The impact of mastering these competencies is that you:

- Structure and sequence the curriculum based on outcomes and goals.
- Identify how and when to assess and validate proficiency.
- Document learning best practices to guide the design.
- Ensure that you consider how to sustain performance over time.

Supporting competencies and tasks

These tasks contribute to mastery of the supporting competencies (in bold). Put a check mark next to each task or subtask within the supporting competency as you complete it:

2a	Identify desired performance and other outcomes
	Review desired performance and other outcomes (see Assessing Performance Needs 2a)
	Emphasize importance of performance and other outcomes to participants
	Identify motivational reasons to adopt the taught behaviors and content
2b	Sequence performance and other outcomes
	$Determine \ the \ order \ content \ should \ flow \ within \ each \ learning \ experience \ and \ between \ learning \ experiences$
	Set priorities, determine prerequisites and dependencies, and define performance and other desired outcomes
	Identify assessment checkpoints along the way to confirm proficiency
2C	Identify potential learning and other performance solutions for achieving desired outcomes
	Identify potential learning and other performance solutions for closing performance gaps or achieving other desired outcomes (see Assessing Performance Needs 4a)
	Select learning and other performance solutions to achieve outcomes (see Assessing Performance Needs 4b)
	Identify support required for learning (for example, online forums, peer and business-to-business networking, crowd sourcing of materials, coaching and mentoring)
	Determine a realistic overall timeframe for participant completion of curriculum
2d	Determine the sequence of learning experiences for identified groups of participants

Determine points of entry to the curriculum, based on prior experience or learning, and ways to support participant entry (for example, provision of remedial training) 📀 💿

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2e	Determine how technology and tools can support the curriculum
	Determine reliability of technological infrastructure in the regions (for example, prevalence of brownouts or blackouts, bandwidth issues, media censorship)
	Determine the types of devices to use to support the program (for example, smartphones, tablets, classroom polling devices)
	Determine how to use technology to store and deliver content
	Determine how to use technology to promote communication and collaboration among participants and facilitators
	Determine how to use technology for assessment and testing
	Determine how to use technology to personalize experiences and resources for different groups of participants

Key outputs and assessment criteria

KEY OUTPUTS	ASSESSMENT CRITERIA
Structured list of goals for each	Performance outcomes state observable outcome and conditions under which outcomes are achieved
experience within a curriculum	Other desired outcomes are stated as concretely as possible
	List reflects needs and issues identified in the assessment
High level roadmap for the curriculum	 The Roadmap Is consistent with identified goals, interdependencies, and constraints Identifies any prerequisites Identifies all required and optional components of the curriculum Shows progression through the curriculum Shows alternative paths for identified groups of participants, where appropriate Identifies the goals of the learning experience Shows assessment checkpoints and identifies when participants should be proficient in specific performance outcomes Shows timing of components and curriculum as a whole Explains how to use technology to support the curriculum and provides alternatives in the event of technological failure Identifies support needed within the work environment Reflects planned organization initiatives (for example, product launches, changes to technology or regulatory requirements, role redesign)

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Prototype

curriculum components

Prepare to implement and sustain the curriculum

3. Design a detailed roadmap for the curriculum

Importance

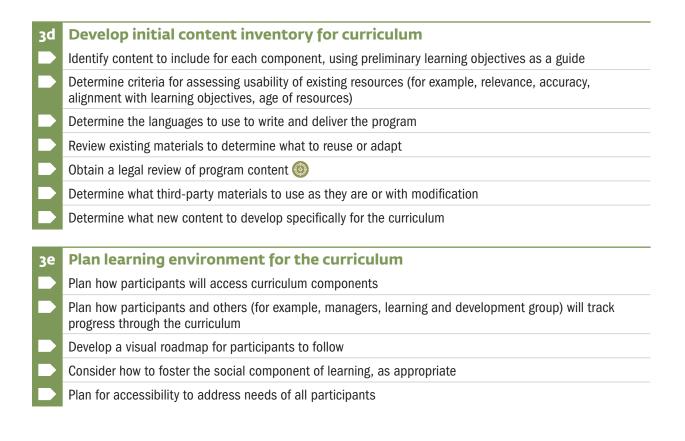
The impact of mastering these competencies is that you:

- Link learning objectives and activities to performance and other outcomes.
- Select the most effective and efficient formats and delivery channels for learning.
- Make effective use of available resources to design and develop learning experiences and materials.
- Create curriculum components that participants can easily access.

Supporting competencies and tasks

These tasks contribute to mastery of the supporting competencies (in bold). Put a check mark next to each task or subtask within the supporting competency as you complete it:

a	Establish preliminary learning objectives for each curriculum component
	Identify the appropriate level of learning for each lesson's or task's learning objective (such as remembering, understanding, applying, analyzing, evaluating, creating)
	Write statements describing:
	The observable outcome for each key skill or knowledge requirement
	The conditions under which to perform the task
	The standards of acceptable performance
	Sequence learning objectives for ease of learning
	Validate learning objectives for accuracy and sequence
	Align learning objectives with performance and other outcomes
	Determine minimum criteria for successful completion of stages or phases of learning
	Clarify format for each curriculum component
	Determine the purpose of each curriculum component (for example, general awareness, skill practice, transfer of learning)
	Identify options for formats and their typical uses (for example, a live or self-study course, user guide, job aid, online support resource)
	Identify expectations participants bring to the format (for example, type of information included, how it is structured, writing style)
:	Determine delivery channel for each curriculum component
	Identify options for delivery channel(s) (for example, classroom, virtual classroom, job aid, web-based learning, videos, social learning)
	Select appropriate channel(s) based on criteria
	Create smaller training segments and alternative training methods to embed flexibility into the program design to address potential disruptions or technological challenges



2. Create a high-level roadmap for the curriculum

.Prepare to implement and sustain the curriculum

Key outputs and assessment criteria

KEY OUTPUTS	ASSESSMENT CRITERIA			
Detailed	Roadmap identifies each component of the curriculum			
curriculum roadmap	Learning objectives include an observable behavior condition and standard			
	Learning objectives align with performance outcomes			
	Roadmap identifies an appropriate format for each component that addresses the learning objectives			
	Roadmap identifies an appropriate, effective and easily accessible delivery channel for each learning experience			
	Proposed evaluation methods are appropriate to the level of learning objectives			
	All design choices align with overall goals, performance and other desired outcomes, resources available, and accepted best practices in performance and learning			
Initial content inventory	Inventory identifies existing internal and third-party materials to reuse or adapt and which materials to design and develop			
Plan for learning	Participants can easily access the components of the curriculum			
environment	Participants can see all the learning experiences that comprise the full curriculum			
	Participants and others can track progress through the curriculum			
	Participants' accessibility needs are met			

4. Prototype curriculum components

Importance

The impact of mastering these competencies is that you:

- Make improvements based on designing and testing prototypes.
- Determine how to "scale up" efficiently.
- Develop materials with a consistent look and feel.

Supporting competencies and tasks

These tasks contribute to mastery of the supporting competencies (in bold). Put a check mark next to each task or subtask within the supporting competency as you complete it:

Design at least one example of each curriculum component as a prototype **4**a Generate a broad range of possible solutions Create and get input on a series of quick prototypes Test to inform the next iteration of prototypes 4b Determine style quidelines for ensuring consistency across subsequent design and development Determine standards for text (for example, voice, use of terminology, editorial style) Determine standards for visuals (for example, colors, style of illustration) Determine a standard approach for each component (for example, job aids, user guides, videos, e-learning, websites) Determine appropriate technology and e-learning standards Incorporate corporate branding, if appropriate Develop templates based on the validated templates and guidelines 4C Develop templates for each type of component Develop templates for category of content within components (for example, presentation of text or text and visuals, multiple-choice questions) Build standardized text into templates (for example, instructions and headings, other standard wording) Confirm that templates comply with style guidelines Confirm that templates comply with relevant technology and e-learning standards Confirm that templates work with the chosen authoring tools

CURRICULA

2. Create a high-level roadmap for the curriculum

1. Prototype curriculum

.Prepare to implement and sustain the curriculum

Key outputs and assessment criteria

KEY OUTPUTS	ASSESSMENT CRITERIA		
Prototypes	Prototypes illustrate look and feel of materials and visual aids		
of curriculum components	Prototypes comply with corporate branding, templates, and guidelines		
	Technology and other logistics work, with backup strategies in place in case of failure		
	Guidelines for ensuring consistency of design and materials are documented		
Guidelines for creating	Guidelines identify definitions and preferred uses of terms for curriculum, as well as terminology to avoid		
consistent components	Guidelines include a glossary of acceptable synonyms to guide translators in consistent terminology usage, when offering a program in multiple languages		
	Guidelines provide consistent text for frequently used instructions		
	Guidelines identify the preferred and culturally appropriate stylistic choices for the curriculum, reflecting the client's needs		
	Guidelines are clear and thorough		
Templates	Templates are provided for each major curriculum document type (for example, facilitator guides, job aids)		
	Templates comply with guidelines for ensuring consistency		
	Templates work with the chosen authoring tools for the curriculum		
	Templates comply with relevant technology and e-learning standards		
	Templates address issues of activities, images and image styles, formatting, fonts, colors and layout		

5. Prepare to implement and sustain the curriculum

Importance

The impact of mastering these competencies is that you:

- Implement the curriculum successfully
- Prepare participants to transition easily from a previous curriculum to the new curriculum
- Maintain and sustain the curriculum over time

Supporting competencies and tasks

These tasks contribute to mastery of the supporting competencies (in bold). Put a check mark next to each task or subtask within the supporting competency as you complete it:

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- Determine scope, budget, and timeline for implementation
- Plan for the organizational structure and resources required to deliver and manage the curriculum
- Plan for staged implementation, considering when various components should become available
- Plan for transition of those who have started an earlier version of the curriculum but have not yet finished
- Determine when and how to end use of the previous curriculum, if relevant
- Plan for technical and administrative support for the curriculum (for example, in-person support for self-study components or training and support of facilitators)
- Advise on communications and marketing activities to promote the curriculum
- Test technology and other logistics

5b Plan for validation of the curriculum

- Determine what components of design and materials need validation
- Determine approach for validation (for example, small group validation, full group pilot)
- Determine the appropriate mix of stakeholders to validate the curriculum and detailed content
- Plan for revising components based on results of the validation

5c Plan for evaluating both the components and the curriculum as a whole

- Determine method to evaluate participants' reactions
- Determine method to evaluate participants' comprehension or learning
- Determine method to evaluate participants' transfer (application) of learning
- Determine method to evaluate the impact of the curriculum on business goals

. Identify goals, principles, and constraints

curriculum

Create a high-level roadmap for the

. Design a detailed roadmap for the curriculum

Prototype curriculum components

curriculum

Prepare to implement and sustain the

5d Plan for maintaining the curriculum

Plan how and when to update curriculum

Plan how the curriculum can evolve based on needs of the client's business and needs of participants

Establish roles and responsibilities for maintaining the curriculum

Key outputs and assessment criteria

KEY OUTPUTS	ASSESSMENT CRITERIA
Implementation plan	Includes rationale for approach, resources required, budget, and comprehensive list of activities and timing, with clear roles and responsibilities
	Addresses needs and concerns of client and other stakeholders
	Addresses transition from the previous to the new curriculum, if relevant
	Addresses providing technical and administrative support for the new curriculum to both participants and trainers/facilitators
	Includes proposals for announcing and promoting the new curriculum
	Addresses validation of components and the curriculum as a whole
	Is approved by client
Maintenance plan	Addresses ongoing maintenance of content
	Addresses how to effectively integrate additions to the curriculum
	Is approved by client