

# Template and Sample Questions for Maker Literacy Pre-Assessments

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## Start of Block: Sample Introduction Pre-Assessment

As part of [Course Number]: [Course Name], we are conducting a survey to assess students' [Competency or Competencies] skills at the beginning of the course. This survey is not graded, but is mandatory and will be counted as part of your participation grade for the course.

The following questions are to help us understand your [Competency or Competencies] skills and habits. Please answer the questions to the best of your ability. At the end of the semester, we will ask you a set of similar questions in order to gauge how your [Competency or Competencies] skills and habits have changed.

This survey should take about 15 minutes or less, and must be completed in one session. The deadline for taking the survey is [Deadline] at midnight.

## End of Block: Sample Introduction Pre-Assessment

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## Start of Block: FabLab Equipment Familiarity Pre-Assessment

Before taking this course, have you ever used the equipment in the UTA FabLab?

☐ Yes

☐ No

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Please rate your knowledge of how to use the types of equipment found at the UTA FabLab and other makerspaces:

	None	Beginner	Novice	Intermediate	Competent	Advanced	Expert
3D Printing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3D Scanning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Laser Cutting/Engraving	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
CNC Vinyl Cutting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Screen Printing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sewing Machine / Surger	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
CNC Embroidering	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
CNC Milling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
File Preparation for Digital Fabrication	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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In your own words, describe briefly how a 3D printer works:

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In your own words, describe briefly how CNC technologies work:

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End of Block: FabLab Equipment Familiarity Pre-Assessment

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Start of Block: Time Management Pre-Assessment

Overall, how would you rate your time management skills?

- ☐ poor
- ☐ below average
- ☐ average
- ☐ above average
- ☐ excellent

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In your own words, describe some of the tools and practices that you use to help manage your time. Be specific, for example, instead of saying "calendar" write "Outlook calendar" or "Google calendar".

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Below is a list of effective time management practices. Select the frequency with which you use each.

	Never	Sometimes	About half the time	Most of the time	Always
I schedule work to meet deadlines in time.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I use a calendar for appointments, deadlines, and daily tasks.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I make a daily to-do list and refer to it several times per day.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I outline project milestones, identify their dependencies, and follow critical paths to accomplish goals.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I plan extra time to allow for failures and multiple tests and iterations.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

End of Block: Time Management Pre-Assessment

Start of Block: Assembling Effective Teams Pre-Assessment

How good are you with the following team building practices?

	Extremely bad	Somewhat bad	Neither good nor bad	Somewhat good	Extremely good
Recognizing opportunities to collaborate with others	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Evaluating the costs & benefits of "Doing--it--Together" (DIT) vs. "Doing-it--Yourself" (DIY)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Seeking team members with skills appropriate for specific project requirements	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Joining teams where your skills are sought and valued	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

End of Block: Assembling Effective Teams Pre-Assessment

Start of Block: Knowledge Management Pre-Assessment

In your own words, describe your experience with team-based or collaborative writing projects.

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In your own words, describe your experience revising or rewriting documents that were written by someone else.

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Below is a list of effective knowledge management practices. Select the frequency with which you use each.

	Never	Sometimes	About half the time	Most of the time	Always
I communicate clearly with team members and stakeholders.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I restate technical and “maker” jargon in lay language.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I document my work clearly, concisely and in a timely manner.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I use version control to manage project outputs and documentation.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I preserve project outputs and documentation for long -term access.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

End of Block: Knowledge Management Pre-Assessment