

Biomanufacturing Module 1

Lesson 4 - Job Assignments

Lesson objectives:

Students will understand:

- That biomanufacturing teams are comprised of people with different job descriptions.
- The titles of some of the jobs involved in biomanufacturing.
- That each job title has different responsibilities.

Essential Question

- What type of positions are needed in a biomanufacturing team?

Materials:

- Job Description documents
 - Process Engineer
 - Quality Assurance (QA) Technician
 - Quality Control (QC) Technician
 - Upstream Process Technician
 - Downstream Process Technician
- Career Exploration Assignment
- Team Role Record Document
- Documentation file folder for each team

What Students Will Do

- Read their job description document
- Share information about their job responsibilities with their team
- Listen to their team members describe their job responsibilities
- Discuss questions related to the job descriptions as a class
- Write questions on the white board
- Complete the Career Exploration Assignment #1 or #2 (homework)
- Fill out their Team Role Record
- File their Team Role Record in their team file

Teacher Preparation

- Make copies of the Job Descriptions - one copy of each job description per team
- Make copies of the Team Role Record - one per team

Organizer

Time	Activity	Materials
10 minutes	Assign job roles in each team, or allow teams to choose roles themselves	Job Description Documents
5 minutes	Students read their job descriptions	

20 minutes	Students share information with their team members about their job description	
15 minutes	Class discussion about job descriptions Students identify questions they have about their job descriptions	White board
5 minutes	Students receive the Career Exploration Assignment (homework)	Career Exploration Assignment Document (Option 1 or 2)
5 minutes	Teams fill out their Team Role Record	Team Role Record Document

Procedure

Job Assignments

1. Assign jobs within each team. Or - Hand out job descriptions for each of the 5 team jobs to each team and allow the students to self-select their jobs.
Team job/role assignment methods can be flexible. Students are sometimes absent for various reasons, so teachers have suggested flexibility with selection/assignment of team roles. Possible choices include:
 - a. Each student is assigned one role and keeps that role throughout the kit curriculum.
 - b. Student roles are assigned daily and change from day to day.
 - c. Each student is assigned a primary role and different back-up role.
2. Ask students to read their job description.
3. Ask students to describe their job to the rest of their team. Each team member describes their job (as they currently understand it from reading the job description) to the rest of their team.
4. The class meets as a whole to discuss questions students have about their jobs.
5. Questions about each job are written on the white board. These can be further discussed after students complete one of the Career Exploration Assignments. These assignments can be worked on in class and/or assigned as homework.
6. Each team fills out their Team Role Record.
7. Each team files their Team Role Record in their team file.