NAME

Standard
STEM-FET
1,4,5,8,9

FET 5.1-5
Amatrol Trainers Round 2

In this round of working with trainers, you will not be following a rotation schedule. Instead, you will work through them at your own pace and earn credits as you go, plus you will be able to choose which trainers you want to work on. As before, each trainer has a set of modules (called modules or Learning Activity Packets in the books) that will guide you through the activities you will complete at each trainer. The tracking sheet shows which modules to complete for each.

Process

- You will first be given a tracking sheet that lists information about all the eligible trainers. This is your lifeline on this project. You will use it to guide you through what you need to do and record what you have done. Do not lose it.
- There is no signup or rotation process. Choose an open trainer, complete it, then move on to the next one. There is no advance reservation, no 'calling it', no 'holding'.
- You must complete enough trainers to earn 5 credits. There are 7 trainers, so you will not need to work on every trainer. Most trainers are worth 1 credit, but some may be worth 2.
- When your next trainer is open, begin working on it. If you're working with a group, all your group members must be ready to begin the trainer before you can start on it.
- Complete the required modules/LAPs at the trainer. Refer to the tracking sheet to see which ones to complete. Use the Amatrol Interactive Multimedia Curriculum (AIM) software or the manuals in the binders (the software is best). Complete all readings, activities, and skills.
- When you finish each module/LAP, each group member should take the appropriate quiz in SkillAce and log the results on your tracking sheet.
- When you finish all the modules/LAPs at a trainer, you must demonstrate the skills that are listed on the tracking sheet. You will demonstrate some individually, some as a team – the tracking sheet shows which. After demonstrating these, I will sign off on your tracking sheet that you have done so.
- To complete the trainer, update the tracking sheet with your partners' names and make sure all required information for that trainer is on the form.
- After completion of all your trainers, turn in your tracking sheet.

Additional Requirements

- Throughout the process, you must work with at least one-third of the students in the class (you will be given the specific number).
- You must participate at all times. Share the work on the trainers as much as possible. If you are not doing the actual task, you should be observing.
- You cannot move to a trainer until the previous group is finished and the trainer is not being used.
- Any schedule changes must be approved by me. They will only be approved if they will not interfere with others' schedules.

Evaluation and Grading

- You will receive a grade for each of the 5 credits. These grades will be based on the skills demonstrations and quizzes you complete during each rotation.
- Skills will be evaluated much tougher than in the first round. If you don't show evidence that you completed the trainer activities and skills, you will not receive a passing grade for that trainer.
- You will also receive an overall grade for the project. This will be based on observations of work effort, behavior, and participation, your work with the required number of people, and your tracking sheet.

Grading Rubric – Each credit earned

Skills assessments (if there are 2, then they are averaged)	50
Quiz scores	50
Total	**100**

Grading Rubric - Overall

Work effort, behavior, and participation – 5 points will be deducted for each violation, redirection, etc.	40
Working with different people – each person is worth (50/#required) up to max of 50	50
Tracking Sheet up-to-date and turned in	10
Total	**100**

Amatrol Trainers Round 2 Tracking Sheet **Name:** _____

Update this sheet as you work through the trainers. You must turn in this sheet at the end, so DO NOT LOSE IT.

Trainer Tracker

Robotics	Credits: 1	Mods/LAPs: 2	Groups: up to 4
Skills	Demonstrate and explain robot program using all required components. (ind)		
Quiz	LAP2 Date: _____ Grade: _____		
Partners			
Computer-Aided Design (CAD)	Credits: 2	Mods/LAPs: 1,2	Groups: 4 groups at once, 2 per computer
Skills	Complete and show toothbrush drawing. Use your own color for toothbrush handle. (team)		
Quiz	LAP1 Date: _____ Grade: _____ | LAP2 Date: _____ Grade: _____		
Partners			
Pneumatics	Credits: 1	Mods/LAPs: 1	Groups: up to 4
Skills	Demonstrate pneumatic circuit using DCV and multiple cylinders (team). Explain how it works (ind).		
Quiz	Date: _____ Grade: _____		
Partners			
Electrical Control	Credits: 1	Mods/LAPs: 1	Groups: up to 4
Skills	Diagram & build a circuit to extend a cylinder using both pushbuttons and either AND or OR logic. (team)		
Quiz	Date: _____ Grade: _____		
Partners			
AC/DC Electrical	Credits: 1	Mods/LAPs: 1,2	Groups: up to 4
Skills	Connect a circuit using a light, switch, and resistor (team). Measure voltage & resistance at 2 points (ind).		
Quiz	LAP1 Date: _____ Grade: _____ | LAP2 Date: _____ Grade: _____		
Partners			
Mechanical Fabrication	Credits: 1	Mods/LAPs: 2,4	Groups: 2 groups at once, up to 3 each
Skills	Demonstrate how to use 4 different wrenches and 3 different screw/nut drivers. (ind)		
Quiz	LAP2 Date: _____ Grade: _____ | LAP4 Date: _____ Grade: _____		
Partners			
Manual Machine Tools	Credits: 1	Mods/LAPs: 2	Groups: up to 4
Skills	Demonstrate using the drill press – install a bit, mount the piece in the vise, then drill a hole. (ind)		
Quiz	Date: _____ Grade: _____		
Partners			
Enter Your Total Credits >>>			