Regional Nursing Career Pathway Initiative High School Off-Site Programming For Florida Department of Labor



EMPLOYMENT AND TRAINING ADMINISTRATION
UNITED STATES DEPARTMENT OF LABOR

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Regional Nursing Career Pathway Initiative

High School Off-Site Programming

For

Florida Department of Labor

Benefit to Students and Teachers:

Florida faces a severe shortage of practicing nurses. Of particular concern is the capacity of regional universities, community colleges and healthcare organizations to train and prepare nurses to meet this demand. The average age of Florida's nursing faculty is 56, six years older than the national average. The combination of increasing demand and a system incapable of producing qualified workers could result in a dramatically decreased quality of healthcare. Simulators can provide the opportunity for students to develop inquiry skills, technical ability, and critical thinking skills within a controlled set of circumstances. The simulator has the ability to show the "patient" as either: healthy, acutely ill, or chronically ill. The simulator also has the ability to speak and display physiological factors. Using a patient simulator and an audience response system can facilitate an interactive presentation. The simulation can be projected onto a large screen in real time. The instructor may pause the simulation to ask the audience questions. Learners can respond to questions using a voting keypad.

Synopsis/Overview:

In four, sixty-minute sessions groups of thirty high-school students will explore the field of nursing while addressing compelling youth-related health issues.

Objective:

The students will become familiar with the basic skills required by nurses, including: decision-making skills, communication skills, the ability to work on a team, and problem solving skills.

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At least <u>one-month prior to beginning first session</u> you MUST:

- **Send applications and parent letter to schools.**
- **Email STEM surveys to accepted students.**
- **Email safety contract and photo release to accepted students.**

At least <u>one week prior to each session</u> you MUST:

- **Email students the background and vocabulary slide show.**
- **Email staff possible pre-activities.**

Teaching Tips:

- These sessions will require students to work in groups. Students should have no more than 6 students in a group.
- Ask the teacher to divide the students into groups in advance.
- Ensure that no students have allergies to latex.
    - Back up nit rile gloves.
- Set up all stations and demo materials before the class arrives.
- Once the class has arrived, go over the introductory material
- Review the background material and vocabulary for each session
- After an in-depth introduction allow 20-30 minutes to complete experiments.
- For the purpose of these sessions, a "think aloud" is defined as a pause in role-play, for the narrator to remind the audience of a key fact.

Safety Notes:

- Remind students of proper laboratory procedures, such as NEVER taste, touch, or smell a chemical unless they are told it is safe, report any spills or breakages, and ALWAYS clean up their area and wash their hands when they are finished. Students must wear safety goggles at ALL times while working with chemicals.
- See MSDS sheets for important chemical safety & disposal information.

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Materials:
Session 1- Introduction to Nursing Careers

Quantity	Material
1	Lap top
1	Projector
30	OSC patient chart worksheets
5	Digital scale
5	Digital wrist blood pressure monitor, latex free
5	Braun thermo scan
30	Thermoscan probe covers
5	Spirometer
5	Rulers
5	Tape measure
30	Spirometer disposable mouth piece
5	Stopwatches
15 sets	Laminated simulation card
1	PowerPoint
30	Bookmarks
5	Conversion cards
1	AV cart

Session 2: Urinalysis

Quantity	Material
1	Drug and Nutrition Slides
1	Smoking and Health Microscope Slides
1	Drug Tri Fold Board
1	Simulated Urine 1 quart
30	Urine Test Strips
1	Lap top
1	PowerPoint
1	Projector
30	Blank student data sheets
30	Centrifuge tubes
6	Magnifying glasses
6	Pipettes
6	Microscope slides with cover slips
6	Microscopes
1	Phenylphaline solution
6	Alcohol lamps
6	Tweezers
1	Box of latex gloves
1	Tub of Clorox wipes
30	Goggles
1	AV cart

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Session 3: Effect on Heart Rate

Quantity	Material
120	Daphnia Magna
1	Aspirin solution
1	Nicotine, Reagent, Solution, 100 mL Bottle MSDS
1	Ethyl Alcohol Denatured, Reagent, Solution, 95%, 4 L Bottle, MSDS
15	Microscopes
1	Drug lock box
30	Pipettes
20	Well slides for microscopes.
1	Caffeine, Laboratory, Powder, 100 g Bottle MSDS
30	Blank student data sheets
30	Pieces of 2x2 netting
15	Magnification chambers
1	Net book
1	Power Point
1	Projector
30	Goggles
1	Box of latex gloves
1	AV cart

Session 4: SIM man

Quantity	Material
1	Patient simulator with clothes, IV tubing and ID bracelet affixed
1	Patient simulator stretcher
1	Portable air compressor
1	Simulation laptop with simulation software pre-installed
2	Pre-programmed scenarios
1	Net book
1	Digital projector
1	Audio visual cart
1	Quiz Dom receiver
30	Quiz Dom responders
3	Lab coats
5	Sets of scrubs
30	Stethoscopes
1	Web cam
1	IV pole with fluid bag

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1	Urine collection container
1	Box of latex gloves
8	Clipboards
16	Laminated role cards
1	Package of mailing labels
1	Amplifier
1	Shawl
2	Pre-filled vials of simulated blood
1	Set of AV cables
30	Laminated healthy patient charts
30	Blank patient charts
1	Simulation computer monitor
1	PowerPoint
30	STEM surveys
30	Post-tests