

2019 FFA Aquaculture CDE
Time and Date: TBD
FFA State Conference

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2016 CDE Event Rotation	2017 CDE Event Rotation	2018 CDE Event Rotation	2019 CDE Event Rotation
Individual Events:	Individual Events:	Individual Events:	Individual Events:
General Knowledge	General Knowledge	General Knowledge	General Knowledge
Organism ID	Organism ID	Organism ID	Organism ID
Equipment ID	Equipment ID	Equipment ID	Equipment ID
Re-Circulating Systems/Pump Troubleshooting	Salinity Calculations	Aquatic Organism Anatomy	Feed Rate/Efficiency
Team Event:	Team Event:	Team Event:	Team Event:
Marketing 1	Freshwater Ecosystems	Marketing 2	Water Quality

Contest Format

Rules:

- Each school is allowed 4 contestants. Individual scores will be added to the team event scores to make up the total team score.
 - Please bring clipboards, pencils, paper and a calculator.
 - Teams will be in official dress.
 - Electronic Devices are not permitted during the contest.
 - Equipment and Organism ID word banks will be provided.

Individual Events:

1. General Knowledge Test - All teams will start the CDE with this event. The Test will consist of 50 multiple choice questions. References: *National Council Aquaculture Curriculum Series* (not species specific units) and *Aquaculture Science Text*.
2. Aquatic Organism ID – Each team member will identify 25 aquatic organism specimens (live, preserved, photo) from the [Aquatic Organism List](#).
3. Aquaculture Equipment ID – Each team member will identify 20 items from the [Equipment List](#).

4. Re-Circulating Systems/Pump Troubleshooting: Teams will be presented with a situation in which they must determine a re-circulating system or pump problem. This may be related to water flow, pump sizing, head loss, total dynamic head, filter efficiency, flow, volume, stocking density or filtration.
5. Salinity Calculations and/or Manipulation – Event may include determining salinity of a solution, calculating a new salinity or manipulating a known salinity solution and/or mixing a required concentration salt solution.
6. Aquatic Organism Anatomy – Each team member will identify the internal and external anatomy of various aquatic species including mollusks, crustaceans and finfish.
7. Feed Rate & Feed Efficiency Problem – Each team member will answer a Feed Rate and Feed Efficiency problem. References: Aquaculture Science, Chapter 8.

Team Events:

1. Marketing – 1. Each team will be given a scenario and aquatic product. They will develop a 60 second commercial that they will present to a panel of judges. The judges will score each team based Product Marketing Scoring Rubric *or* 2. Teams will be presented with a scenario related to an aquaculture product. Teams will develop a marketing plan for a specific group of customers, a specific area or specific product. Teams will be scored with a Marketing Scoring Rubric. This event will rotate every 2 years.
2. Freshwater Ecosystems – Teams will be given a scenario related to freshwater ecosystem management which may include discharge, pollution, macro-invertebrates or invasive species. Teams will create a management plan to address the issue.
3. Water Quality – Teams will be presented with a water quality scenario, including water test results. Members will perform up to 3 possible water tests. Members will then answer questions based on scenario and water test results.