Swimming Pool Trades and Construction Technology Program

(Proposed Program Name & Working Outline)

The proposed program will be comprised of 3 – 300 hour segments. All students will be required to take the core 300 hours. After successful completion of the core student will choose a track of Service and Maintenance or Construction. Student may also complete all 900 hours.

Students will be eligible for financial aid.

**Program Core Curriculum – 300 hours - Occupation Completion Point-A (OCP-A)**

The NCCER Core – with an Occupation Completion Point (OCP) with the following topics for the first 90 hours

1. Safety (OSHA 10 certification)
2. Math
3. Introduction to hand tools
4. Introduction to power tools
5. Blue print reading
6. Communication Skills
7. Employability Skills
8. Materials Handling
9. 16 hour Florida Public Pool Specialist (Certification)
   1. DOT regulations
   2. Hazardous Material Handling (HAZMAT)
   3. Virginia Graeme Baker Pool and Spa Safety Act (VGB)

**Suggested topics to complete the 300 hour core**

1. History of the Pool Industry
   1. Construction
   2. Water Chemistry
2. Pool cleaning
3. Florida Building Code
4. Statues and Rules
   1. Chapter 489, Part I, Florida Statues
   2. Chapter 61G4, Florida Administrative Code
   3. Chapter 455, Florida Statues
5. Florida Department of Health (64E-9)

**Construction – 300 hours – Suggested Topics – OCP-B**

1. Design
2. Permits
3. Inspections
4. Blue Print Reading
5. Layout & Forms
6. Excavation
7. Reinforcing bar (Rebar)
8. Plumbing
9. Electrical
10. Gunite
11. Shotcrete
12. Masonry
13. Tile
14. Coping
15. Pool finishes

**Service and Maintenance – 300 hours – Suggested Topics OCP-C**

1. Natural and LP Gas (LP Certification)
2. Pipe fitting
3. EPA Certification
4. HVAC
5. R22 – 14A Refrigerants
6. Electrical
   1. Wiring Diagrams
   2. Wiring
   3. Bonding
   4. GFCI
   5. Schematics
   6. Wire Sizing
7. Plumbing
8. Hydraulics
9. Smart House Wiring
10. Capacitors
11. Motors
12. Heavy Equipment Handling
13. Automation
14. Leak detection