

**Undersea Technology Apprentice Program M-Th, 0800-1300 Summer 2025**  
**Session 1 - July 07, 2025 through July 24, 2025**

Naval Undersea Warfare Center, Division Newport  
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Week	Date	Topics	Reference
1	7/07 7/08 7/09 7/10	Introduction: SeaPerch, ROVs and Raspberry Pi Physics of Water (fresh and salt) Engineering Design/Variable Speed Drive/Soldering Finish Controller/Debugging/Cyber security/sensors	Lecture/SeaPerch Manual Outdoor Test Tanks Lecture/UTAP Manual Lecture
2	7/14 7/15 7/16 7/17	Intro to Linux and Python programming Mission Briefing and testing Modifications/Programming/Practice/Serial Communications Evaluate Vehicle (full mock-up)/Prepare Engineering Documentation	Lecture Test Tank Test Tank /Lecture Test Tank
3	7/21 7/22 7/23 7/24	Practice/Modifications Practice Run/Full Mock-Up MINOR Modifications/Submit Engineering Reports/Competition Course/mission debrief/Competition results	Test Tanks Test Tanks Salt Tank Group discussion

**Participate, be helpful, be considerate, and be tolerant of others opinions ... or we'll give your stipend to your team members!**

**Apprenticeship Content:**

UTAP: Physics, mathematics, engineering, electronics, circuit assembly, soldering, programming, remote sensing, serial communications, cyber security, mechanical design, propulsion, interpreting technical documentation, budgetary constraints, teamwork, time management, technical writing.