Information about STEM CTC - In-person courses

In-person courses

Course	Description	Prerequisites
Applied Technology Operator (ATO)	Applied Technology Operator introduces cadets to emerging and immersive technologies through practical, hands-on learning. Cadets will explore virtual reality, mixed reality, digital design and manufacturing (3D printing), eSports, and immersive learning technologies while creating, testing, and refining technology-based projects. The course emphasizes creativity, innovation, technical skills, problem-solving, and exploration in a collaborative environment.	Training Year 4+ Active Cadet365 account
Cyber Defender Operator (CDO)	Cyber Defender Operator introduces cadets to the fundamentals of cybersecurity, digital safety, and cyber defence through practical, hands-on learning. Cadets will explore cyber threats, network security, ethical hacking, digital citizenship, and incident response through interactive labs, simulations, and cybersecurity challenges. The course emphasizes cyber awareness, analytical thinking, problem-solving, digital protection, and incident response in a collaborative environment.	Training Year 4+ Active Cadet365 account
IT Support Operator (ITSO)	IT Support Operator introduces cadets to the fundamentals of information technology through practical, hands-on learning. Cadets will explore computer systems, networking, technical support, automation, and digital technologies through troubleshooting exercises and technology-based challenges. Cadets will learn to set up and support computer systems, diagnose common technical issues, troubleshoot hardware and software, and provide effective technical support. The course emphasizes technical skills, problem-solving, communication, and customer support in a collaborative environment.	Training Year 4+ Active Cadet365 account
Space Operator (SO)	Space Operator introduces cadets to the exciting field of space exploration and operations through practical, hands-on learning experiences. Cadets will explore astronomy, robotics, rocketry, mission planning, and space technologies while participating in STEM-based activities and realistic simulations. Through observation, experimentation, design challenges, and mission-focused exercises, cadets will develop scientific knowledge, technical skills, teamwork, and problem-solving abilities while gaining an appreciation for the technologies and systems that support modern space exploration.	Training Year 4+ Active Cadet365 account

Uncrewed Systems Operator (USO)	Uncrewed Systems Operator introduces cadets to uncrewed and robotic systems through practical, hands-on learning such as using drones. Cadets will explore aerial, ground, and underwater uncrewed systems, mission planning, navigation, data collection, and field operations through simulations, technology challenges, and realistic mission scenarios. Cadets will learn to operate uncrewed systems, plan missions, navigate platforms, collect and interpret data, and complete operational tasks safely and effectively. The course emphasizes technical skills, problem-solving, teamwork, leadership, and innovation in a collaborative environment.	Training Year 4+ Active Cadet365 account

In-person course dates

Course	Dates	Graduation Parade
Staff Cadet	28 June to 20 August 2027 Dates may vary. Check offer of participation if selected.	N/A
Applied Technology Operator (ATO)	12 July to 13 August 2027	13-Aug-27
Cyber Defender Operator (CDO)	12 July to 13 August 2027	13-Aug-27
IT Support Operator (ITSO)	12 July to 13 August 2027	13-Aug-27
Space Operator (SO)	12 July to 13 August 2027	13-Aug-27
Uncrewed Systems Operator (USO)	12 July to 13 August 2027	13-Aug-27