**OSPI CTE Student Leadership Template**

**Extended Learning**

Student Leadership Development is an integral part of the CTE instructional program; the process that enables students to fully utilize the subject matter content they receive through the CTE program. Leadership skills empower each student to assume responsible roles in family, community, and business and industry environments. Through state recognized CTSOs, students have leadership skill development opportunities available at the local, state, national and international level. Leadership equivalencies must be equal to or exceed the appropriate CTSO standards related to the specific program area, for 21st Century Skills integration, and include opportunities for students to participate in community service activities related to this course, participate in related leadership activities outside the classroom at the local, regional, state, and/or national level, and explain how students will be engaged in activities that extend learning beyond the classroom/laboratory into the community and provide real world value.

 **Please see the OSPI Student Extended Leadership Companion Document for additional detailed information.**

**School District:** Olympia SD **Building:** OSD HS **Program Area: STEM**

**CIP Code: 140102/150406 Instructor(s):** OSD Teacher

**Qualifications Checklist:**

***The qualifications reflect equivalency and align with Washington State CTE 21st Century Leadership Skills while establishing the leadership organization and program components reflected in the Program of Work.***

**Leadership Organization:**

[x]  Student Leadership Structure Established (Ex: Elected officers, committee structure, group roles)

[x]  Student led organization; activities are planned, conducted, and evaluated by students

[x]  Activities are conducted under the management and/or supervision of a certified CTE instructor

**Program Components Reflected in Program of Work:**

[x]  Organization and Management [x]  Planning and Evaluation [x]  Community Service

[x]  Finance and Fundraising [x]  Competitive Events [x]  Leadership Development/Demonstration

[x]  Student Recognition [x]  Recreational and Social [x]  Public Relations and Advocacy

[x] Employability and Career Skills

**Annual Program of Work**

**Program Name:** OSD STEM+CS Robotics (FTC) **Year**: 2017-2018

**Activities reflected should only address extended learning components of the program; these should be learning and teaching activities related to career and technical education course or program competencies which occur beyond the scheduled school day and/or school year under the supervision of a certified CTE teacher.**

(CTE Program Standards)

**Activities should place emphasis on personal and group activities that improve life skills and align with 21st Century Leadership skills, encourage students to work together, and include cooperative activities with other groups that make the community a better place to live and work. Descriptions of activities must be specific to the course.**

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| --- | --- | --- | --- | --- |
| **Program Component:**  | **Activity/Event:** | **Description** | **Expected Completion Date:** | **Focused 21st Century Leadership Skill addressed** |
| Competitive Events | FTC League Qualifier #1 | Compete in FTC Robotics in our local league. | November 2017 | 3.B Collaborate with Others |
| Competitive Events | FTC League Qualifier #2 | Compete in FTC Robotics in our local league. | December 2017 | 3.B Collaborate with Others |
| Competitive Events | FTC Interleague Championship | Compete in FTC Robotics in our larger interleague. | January 2017 | 3.B Collaborate with Others |
| Competitive Events | Technical Judging Sessions at FTC Interleague Championship and beyond | Prepare and present to Judges award-worthy work, including Think (Engineering Process), Innovate (Engineering Innovation), Design (Industrial Design) and Control (Software Innovation) | January 2017 | 1.B Work Creatively With Others |
| Competitive Events | Outreach Judging Sessions at FTC Interleague Championship and beyond  | Prepare and present to Judges award-worthy work, including Motivate (Community Outreach) and Connect (STEM Professional Outreach) | January 2017 | 11.A Guide and Lead Others |
| Competitive Events | Post-Interleague Competitions | If teams qualify, continuing to compete in FTC Robotics at State, Super Regionals, or Worlds. | February-April 2017 | 3.B Collaborate with Others |
| Financial and Fundraising | Monthly Budget Meeting | Club Treasurer and President meet with Club Advisor to reconcile accounts and approve purchases with the Club Materials Manager and Advisor. | September 2017 – June 2018 | 12.B Financial, Economic, Business and Entrepreneurial Literacy  |
| Financial and Fundraising | Quarterly Fundraiser | Students run fundraiser with local businesses. | October 2017, January 2018, March 2018, May 2018 | 12.B Financial, Economic, Business and Entrepreneurial Literacy  |
| Community Service | Mentoring Middle School FLL Teams | Students visit and mentor local middle school FLL teams. | September 2017 – January 2018 | 9.A Interact Effectively With Others |
| Community Service | Establishing and Mentoring Elementary School Jr. FLL Teams | Students visit and mentor local elementary school students to develop interest in STEM learning. | Spring 2018 | 11.A Guide and Lead Others |
| Community Service | Volunteering at Local Robotics Events | Students volunteer at local Robotics Events, especially FLL events, to help judge, referee, organize, and run the events. | December 2016 – March 2017 | 9.B Work Effectively in Diverse Teams |
| Organization and Management | Managing and Maintaining Inventory of Parts, Tools and Components | Students maintain a large inventory of robotic parts and components, both mechanical and electrical. They fairly distribute these between teams. They share tools and determine what materials need to be purchased or replaced. | September 2017 – June 2018 | 10.A Manage Products |
| Planning and Evaluation | Development and Presentation of Engineering Notebook | Through FTC students keep an engineering notebook that includes a daily log of goals and accomplishments, as well as robot designs and changes. They also analyze results of testing and matches for future decision making. | September 2018 – April 2018 | 1.B Work Creatively With Others |
| Leadership Development | Elect Officers | Students elect club officers according to the Club Constitution they collectively wrote. The officers fill constitutionally specified roles and delegate responsibility in their absences. | September 2017 | 11.A Guide and Lead Others |
| Public Relations and Advocacy | Community STEM Outreach Events for Adults | Students join other business and groups to provide STEM learning experiences to community members, service organizations, etc., as well as share their FTC Robots, goals and purpose in working and competing in FTC. | February 2018 – June 2018 | 1.B Work Creatively With Others |
| Public Relations and Advocacy | Community STEM Outreach Events for Youth | Students develop and lead STEM learning experiences to community children as well as share their FTC Robots, goals and purpose in working and competing in FTC. | February 2018 – June 2018 | 1.B Work Creatively With Others |
| Employability and Career Skills | Computer Programming, Industrial Design, and Mechanical Engineering | Students learn to code in Java. Robot designs are made using Autodesk CAD and Inventor. Robotics are mechanically and electrically designed to meet specific safety and competition parameters. | September 2017 – June 2018 | 6.A Apply Technology Effectively |
| Recreation and Social Activities | Team Bonding and Celebrations | Students meet for team building and social activities throughout the school year. | September 2017 – June 2018 | 9.B Work Effectively in Diverse Teams |

***Additional activities may be added. Submission of this form is assurance that leadership equivalent and associated activities are active on campus as required component of CTE educational program***