## Line Clearance Tree Trimming Exposure

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## **Energy/Electrical Technologies Program Overview**



**Northwest - Clarkston** 





### Energy/ Electrical Program Overview

- Explore energy generation, transmission and distribution needed to power and maintain a secure and reliable electrical grid.
- Learn to wire and energizing residential and commercial projects.
- Conduct hands-on activities with both renewable and non-renewable energy sources
- Licenses/Certifications Available
  - OSHA 10
  - Energy Industry Fundamentals
  - Red Cross CPR and First Aid







### Energy/ Electrical Program Overview

### DTE





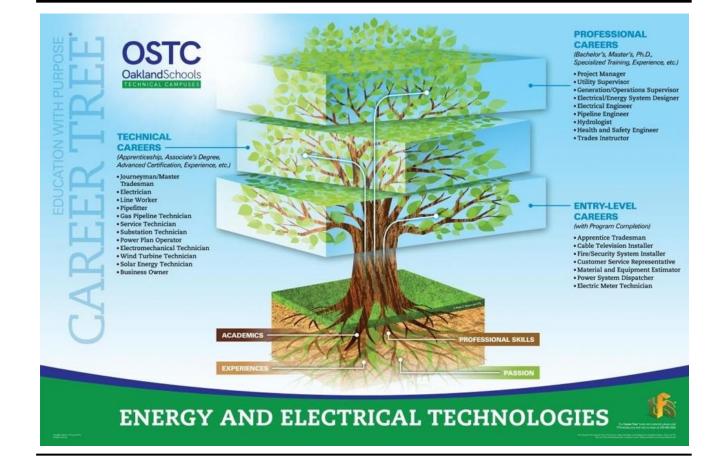
#### OSTC ENERGY/ELECTRICAL TECHNOLOGIES HIGHLIGHTS

Two Year Energy/Electrical Program of Study



#### **SEMESTER ONE SEMESTER TWO** Energy/Electrical Energy Residential Commercial Energy Energy **Fundamentals** Generation Wiring Transmission Distribution Wiring Industry Overview Conventional Electrical Theory Power Grids Distribution Service Entrance **Energy Generation** Safety Ohm's Law Substations Substations Flectrical Meters ONE Tools & Materials Generation Fuel Transformers Special Purpose · AC/DC Primary Circuits Print Reading Sources Transmission Lines Distribution Poles Circuits Wiring Diagrams Energy/Electrical Alternative Energy Conductors & Conduits & National Electric Ground Wire Generation Careers Code (NEC) Insulators Natural Gas Raceways Photovoltaic · Applied Math Electrical Devices Transmission Distribution Communication & Systems Flectrical Circuits Governance **Energy Industry Employability Skills** Hydroelectric • Fuses & Circuit **Fundamentals** OSHA 10 Generation Breakers Year Two Planning (EIF) Certification Geothermal Energy Grounding Energy/Electrical **Energy Skill Electrical Skill** Work-Based Opportunities Energy/Electrical Technologies Safety Review Development Development Work-Based Learning Scaffolds & Ladders Energy Generation Multi-Circuit On the Job Training Personal Protective Flectrical Wiring Energy Fauinment (PPF) Transmission Branch Loads Field Experience Tool Safety Energy Distribution Breaker Panel Hazardous Energy Industry Wiring **Dual Enrollment** Materials Fundamentals (EIF) Masonry Apprenticeship Training Center OSHA 10 Certification Installations **Work-Based Opportunities** Classroom-Based Skill Building Work-Based Learning · Dual Enrollment

### Career Tree







## Tree Trimming Partners

- DTE Energy Workforce Development
- IBEW Local 17
- Oakland Schools Technical Campuses SE & NW Energy/Electrical Technologies CTE programs







## Desired Outcomes of Program

- Demonstrate and utilize proper PPE and safety protocols associated with line clearance tree trim
- Introduce students to the necessary tools and equipment required for line clearance tree trim
- Increase student awareness of line clearance tree trim career opportunities
- Build upon student learning from EIF curriculum through Segment Q experience







## Program Schedule

#### **OSTC - Southeast:**

- Monday, 4/25/2022, 7:50 to 10:20 AM: AM students
- Monday, 4/25/2022, 12:00 to 2:30 PM: PM students
- Tuesday, 4/26/2022, 7:50 to 10:20 AM: AM students
- Tuesday, 4/26/2022, 12:00 to 2:30 PM: PM students

#### **OSTC - Northwest:**

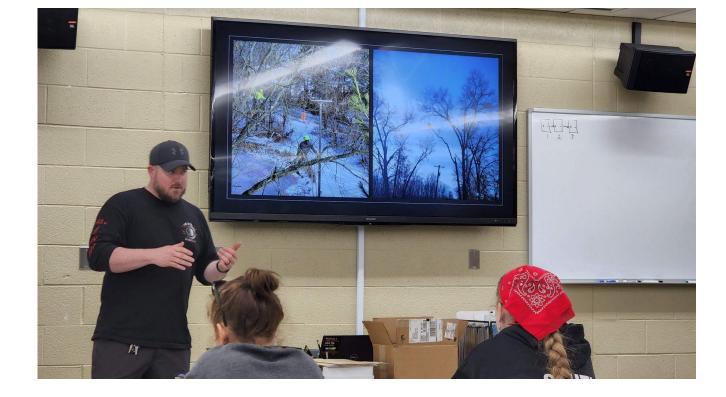
- Wednesday, 4/27/2022, 7:45 to 10:15 AM: AM students
- Wednesday, 4/27/2022, 11:20 AM to 1:50 PM: PM students
- Thursday, 4/28/2022, 7:45 to 10:15 AM: AM students
- Thursday, 4/28/2022, 11:20 AM to 1:50 PM: PM students







# Program Pictures: In-Class Overview









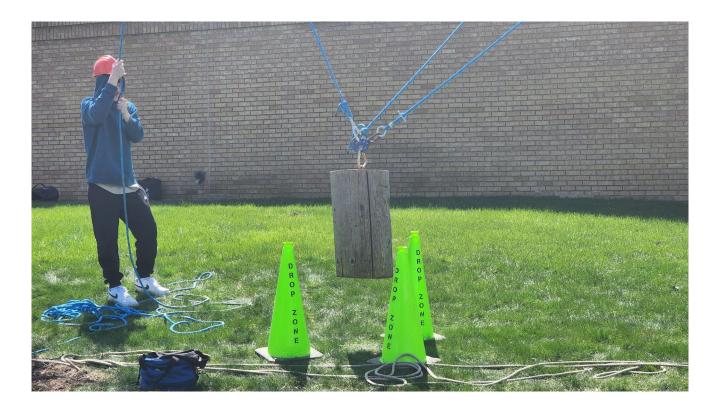
# Program Pictures: Leaf/Tree Identification







# Program Pictures: Log Placement Challenge









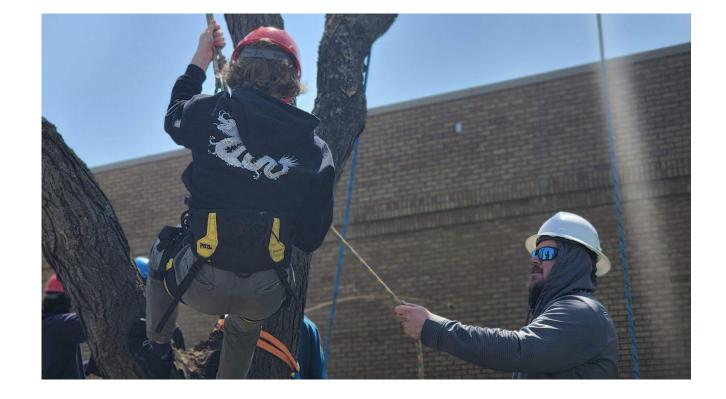
## Program Pictures: Harnesses







# Program Pictures: Tree Climbing









## Program Pictures: Ring Toss









# Program Pictures: Pulleys and Leverage







### **Thank You!**

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