

The webinar will begin shortly.



If you would like to demo an augmented reality portion of the course later in this presentation, you can download the FREE **Zappar** app onto your phone from the app store.

You will not need to enter information or sign up to use it.

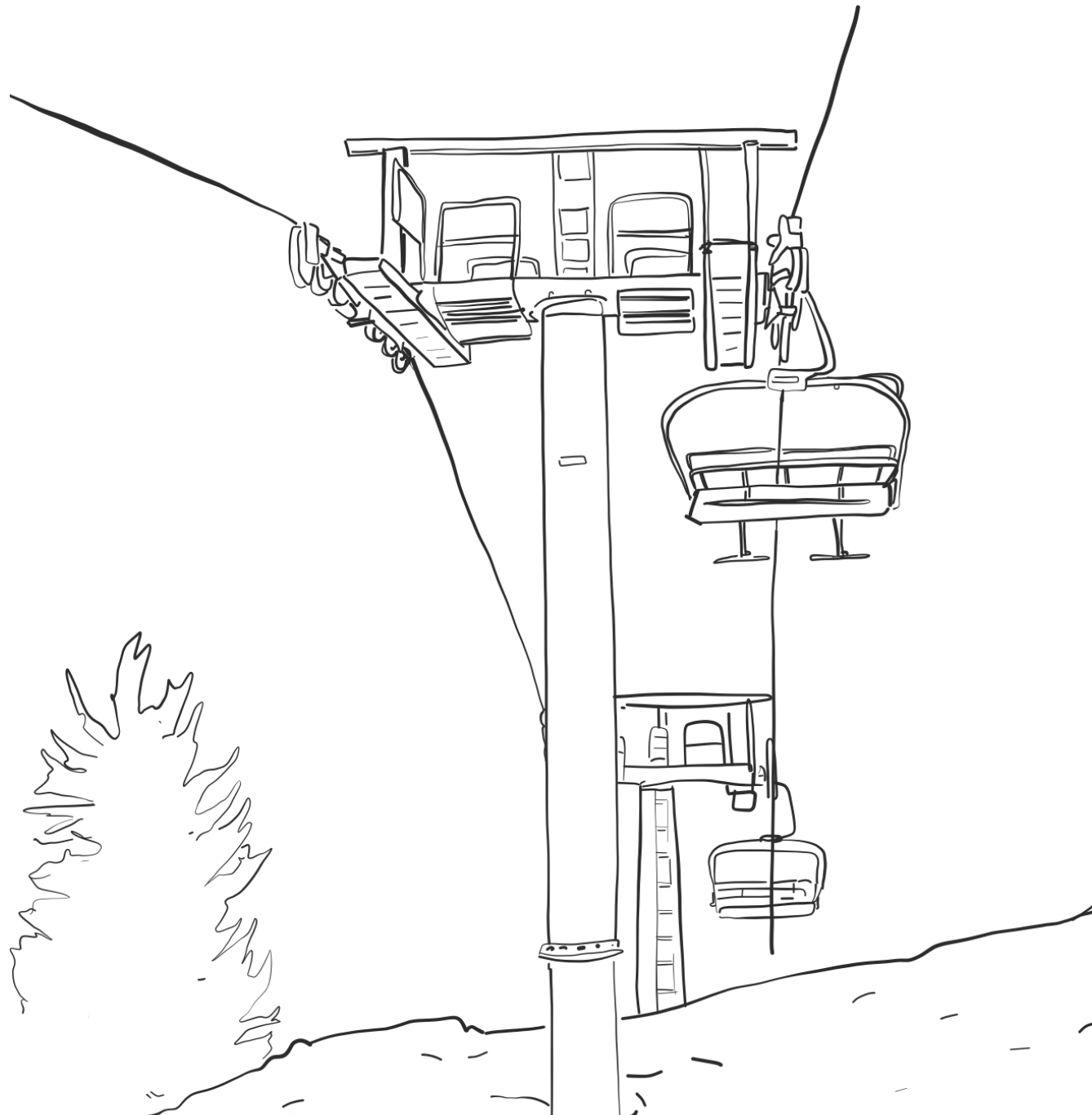


SKI LIFT TECHNICIAN TRAINING

LEVEL 1



center for the
**OUTDOOR
RECREATION
ECONOMY**





JORDAN ELLIOTT
PNSAA



LEE DAVIS
EXECUTIVE DIRECTOR



MEREDITH MORRICE
INDUSTRY ENGAGEMENT

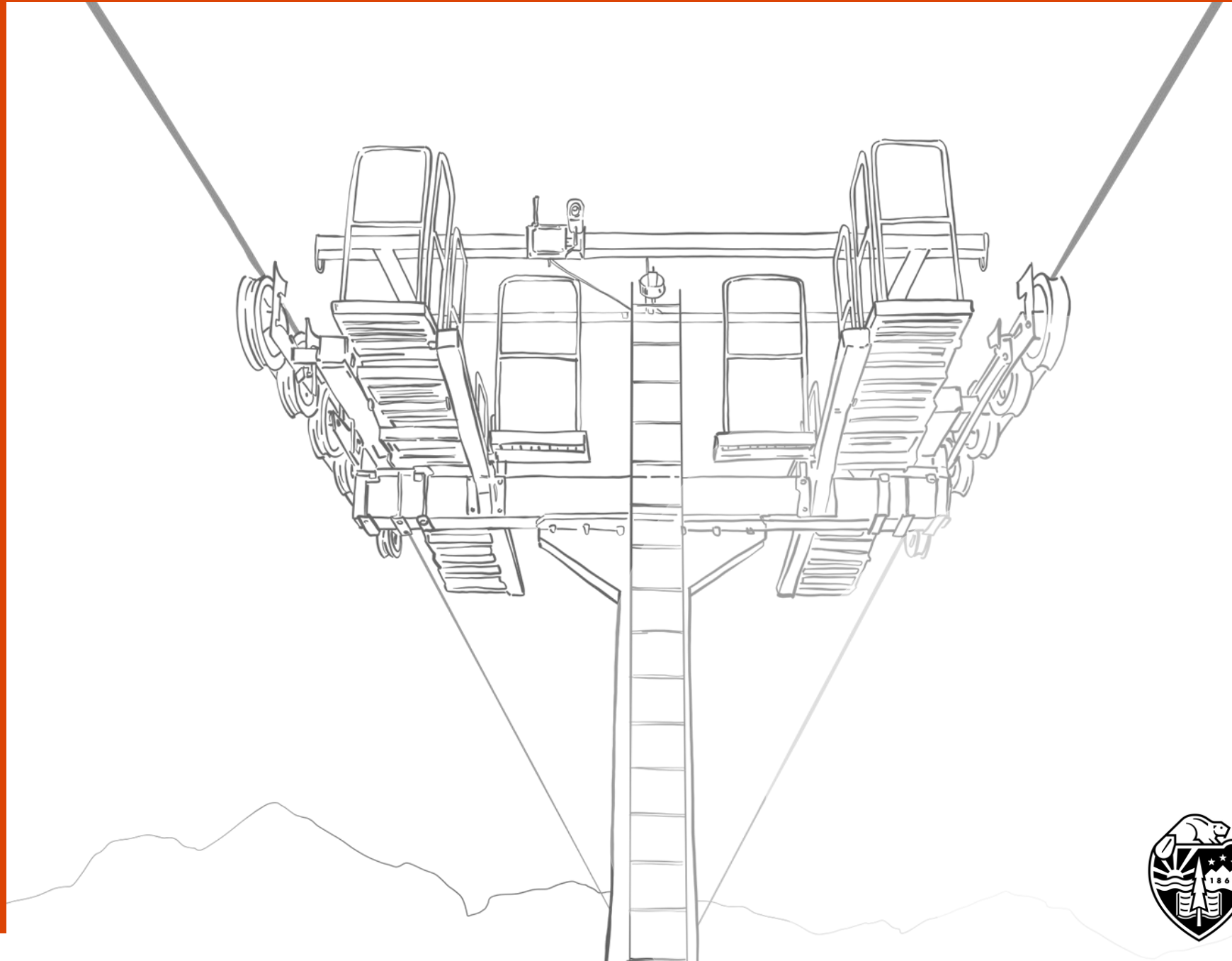


DANNY POWERS
DESIGNER



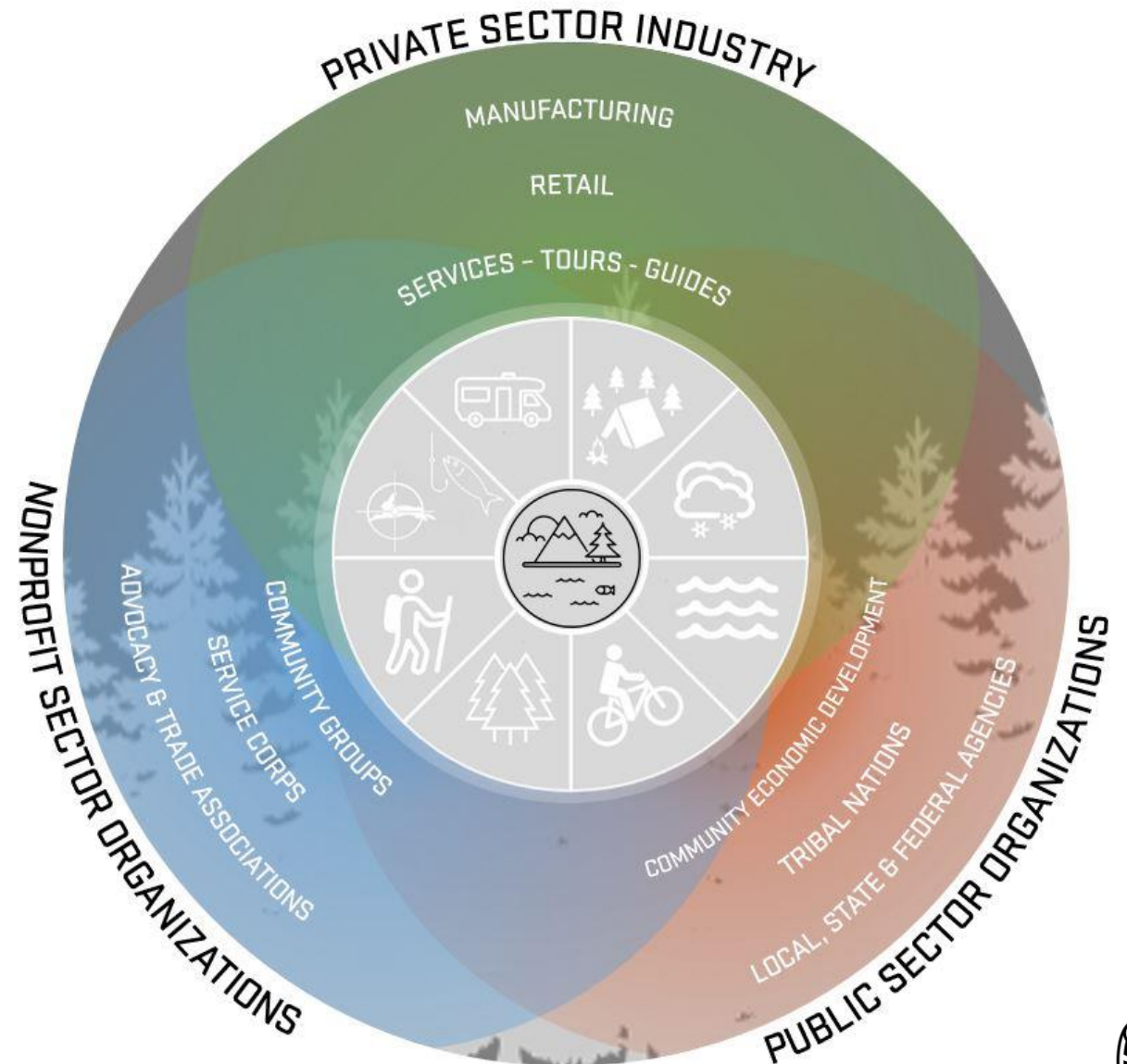
AGENDA:

- Introductions
- About OSU's Outdoor Recreation Economy Initiative
- About the Ski Lift Technician Training, Level 1
 - Pilot Year
 - 2021 Program
 - Course Demo
 - How to Enroll
- Future of OREI
- Q&A



OUTDOOR RECREATION ECONOMY INITIATIVE

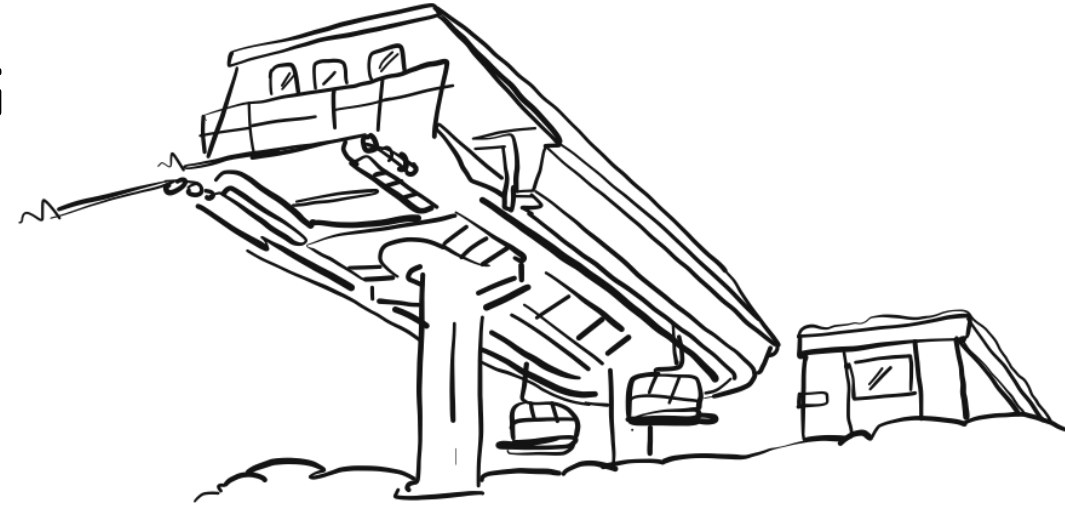
- Background
- Key Findings
- Partners & Projects



SKI LIFT TECHNICIAN TRAINING

PILOT PROGRAM OVERVIEW

- Level 1 Training aligned with the NSAA LMTRG and Selkirk College lift maintenance curriculum
- Program ran August – November 2020
- Cohort of 16 completed:
 - 7 Online Modules with Knowledge Checks
 - Onsite Assessments with Supervisor Checklists
 - Industry expert sessions (live/recorded webinars)
 - Final Exam
- Employees from multiple resorts in OR, WA, and AK
- Concluded with a formal evaluation of training



2021 PROGRAM

- **Course Learning Outcomes**
- Curriculum Areas
- Onsite Assessments
- Ideal Student



At the end of this course, the successful student should be able to:

- Identify major components of lift structures, including terminals, carriers, and moving devices
- Describe the mechanical movement and processes of ski lift functionality, including carrier movement, engines, hydraulics, braking, and other associated components
- Define and discuss the safety aspects and components of proper ski lift operations and mechanics



2021 PROGRAM

- Course Learning Outcomes
- **Curriculum Areas**
- Onsite Assessments
- Ideal Student



PILOT PROGRAM CURRICULUM AREAS

- Workplace Safety and Communications
- Terminals, Tension, Conveyor, and Driveline Systems
- Carriers, Sheave Assemblies, Towers, and Drivelines
- Fixed and Detachable Systems, Braking and Hydraulics
- Electrical and Mechanical Drive Systems and Controls
- Testing, Preventative Maintenance, Record Keeping
- Risk Management, Inspections, Regulations, Legal Issues
- *Foundations of the Outdoor Recreation Economy*



2021 PROGRAM

- Course Learning Outcomes
- Curriculum Areas
- **Onsite Assessments**
- Ideal Student

SKI LIFT TECHNICIAN TRAINING
LEVEL ONE

The training participant has completed Module 4 of the training, and successfully passed the module test. As the participant's supervisor, please confirm and verify that the following topics are understood by the participant, as aligning to your ski area's training guidelines and/or supervisory practices.

Please check each item indicating that you attest to the participant's knowledge and understanding of the topic and fill out the box at the bottom of this form.

MODULE 4


<input type="checkbox"/> Understand the major types of brakes, including services brakes, emergency brakes, and anti-rollback device	<input type="checkbox"/> Understand and describe local electrical infrastructure responsible for routing electricity to the ski area
<input type="checkbox"/> Understand the three functions of brakes, and when those are in use	<input type="checkbox"/> Describe switches and relays, and how they are used in lift operations
<input type="checkbox"/> Define proving torque to ensure proper resumption of movement after braking	<input type="checkbox"/> Describe the uses and features of low-voltage control circuits and safety circuits
<input type="checkbox"/> Understand application and deceleration rates, controlled braking, and standstill monitoring	<input type="checkbox"/> Understand back-up and standby engine control within the local machinery structure
<input type="checkbox"/> Define regenerative and dynamic braking	<input type="checkbox"/> Describe how operator controls are used in routine lift operation, particularly procedures for starting and stopping
<input type="checkbox"/> Understand and utilize basic electrical terminology as related to local machinery and lift maintenance	<input type="checkbox"/> Understand the uses and circumstances of normal stops, emergency stops, service stops, and emergency shutdowns
<input type="checkbox"/> Define the difference between alternating current (AC) and direct current (DC), and how each are applied in lift operations	<input type="checkbox"/> Describe the various safety circuits in local machinery, and how they are utilized throughout routine operation

PARTICIPANT NAME _____

SUPERVISOR NAME _____

DATE _____

SUPERVISOR SIGNATURE _____

 Oregon State University



2021 PROGRAM

- Course Learning Outcomes
- Curriculum Areas
- Onsite Assessments
- **Ideal Student**



SKI LIFT TECHNICIAN TRAINING

2021 TIMELINE & COST

MAY

Registration Open

JUNE

Orientation

FORE101

Lift Modules 0 – 2

Webinars & Supervisor Check-Ins

JULY

Lift Modules 3 – 5

Webinars & Supervisor Check-Ins

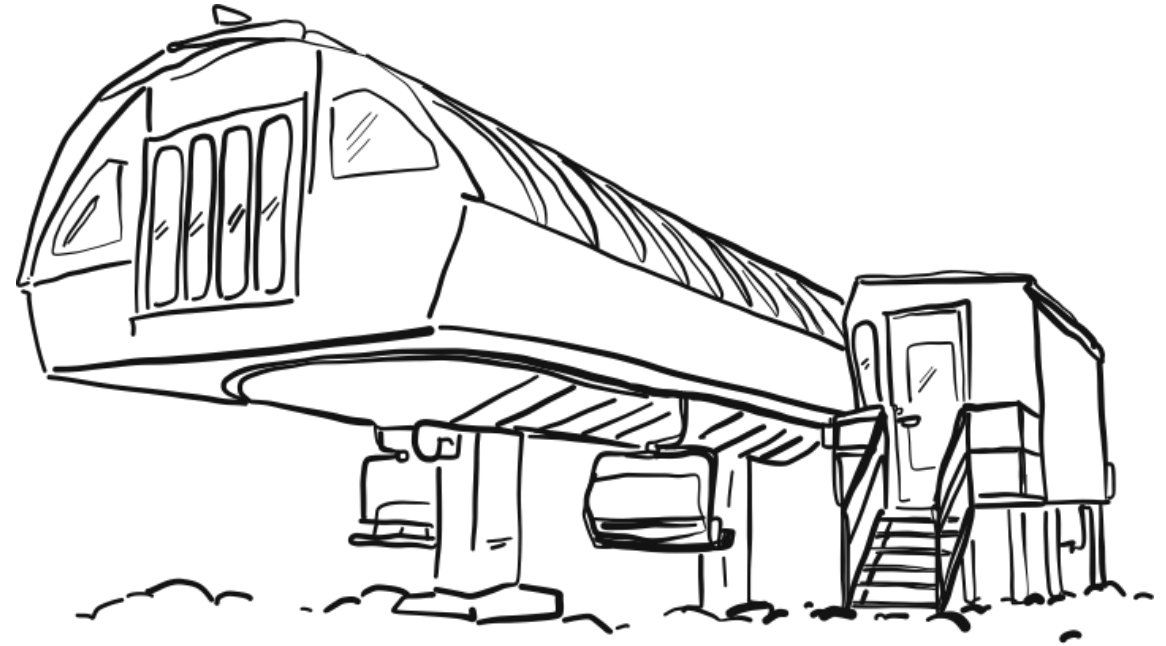
AUG

Lift Modules 6 – 7

Webinars & Supervisor Check-Ins

SEPT

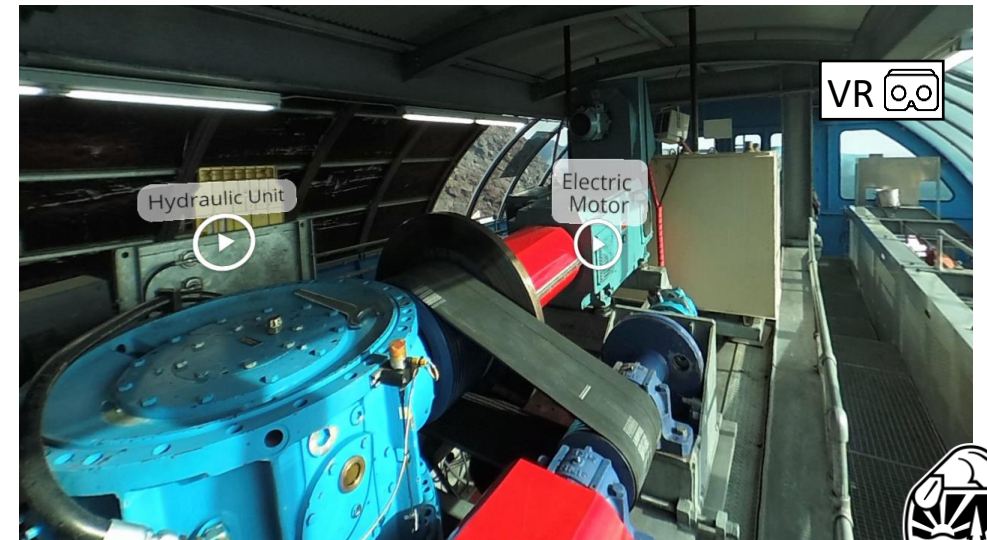
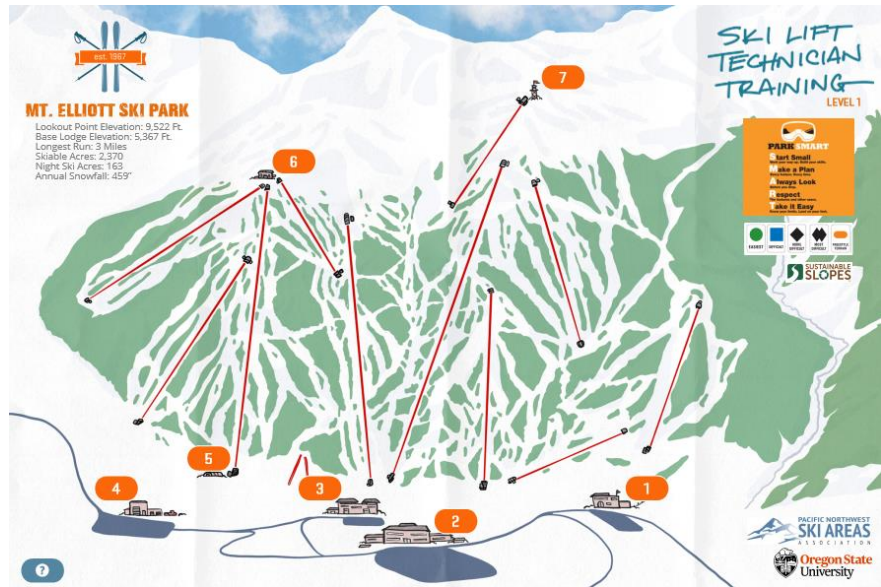
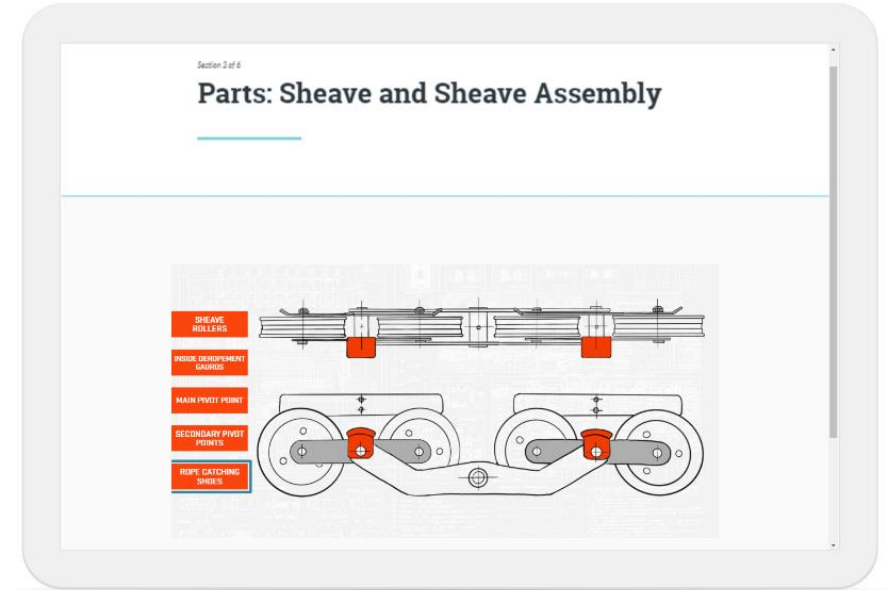
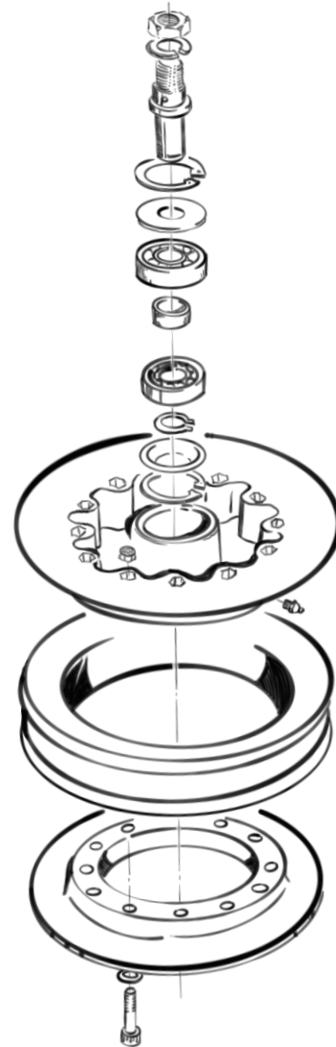
Final Exam



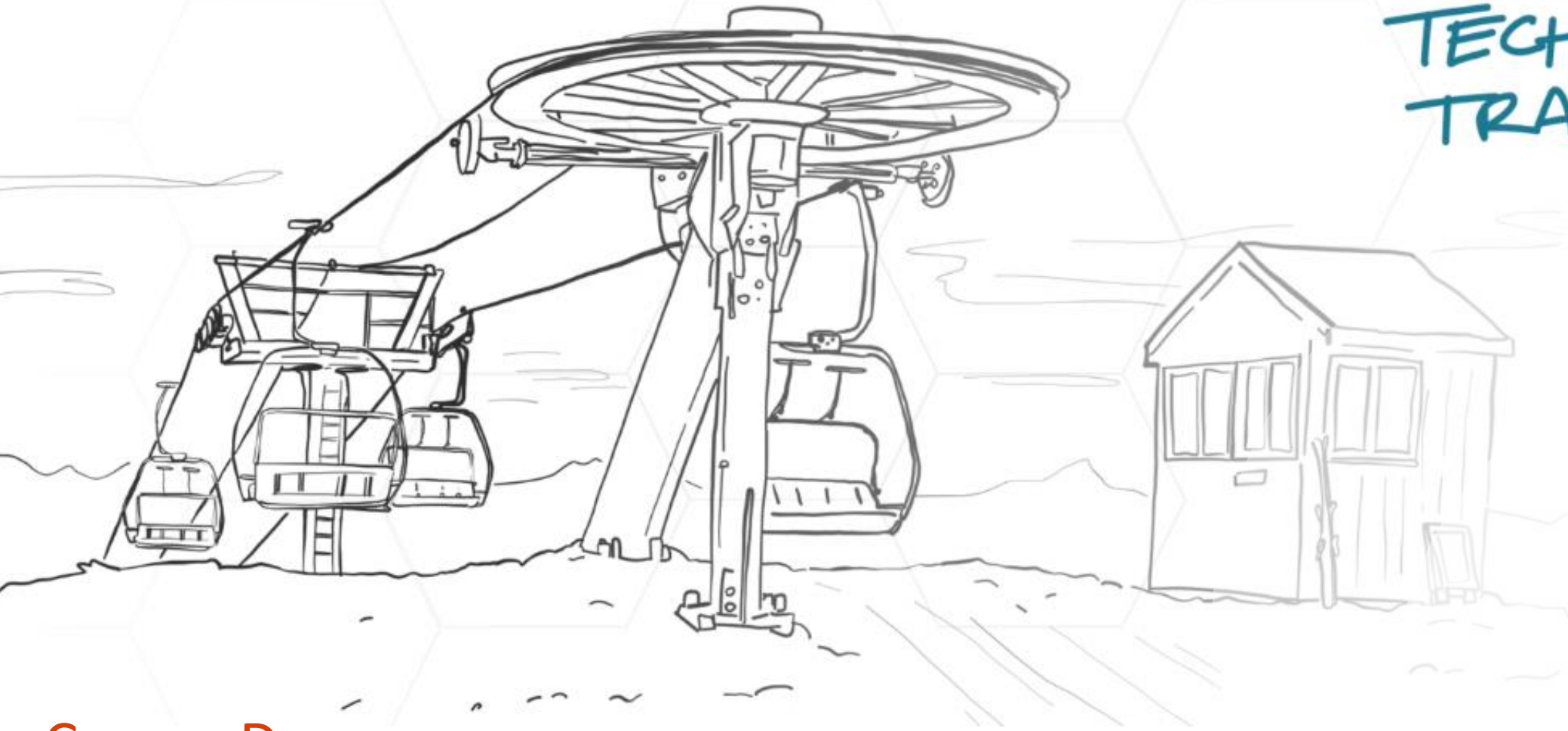
Cost: \$1,000

*sponsoring resorts &
scholarship opportunities*





SKI LIFT TECHNICIAN TRAINING



Course Demo





1. Open the Zappar app
2. Scan the circle code shown here
3. When it's finished loading, point your phone at a flat (non-shiny) area on your ground or desk
4. Tap to place the terminal



SKI LIFT TECHNICIAN TRAINING

LEVEL ONE

Orientation starts: Week of June 14, 2021

Registration: Open Now!

Go to: orei.oregonstate.edu

Email: outdooreconomy@oregonstate.edu



How to Enroll



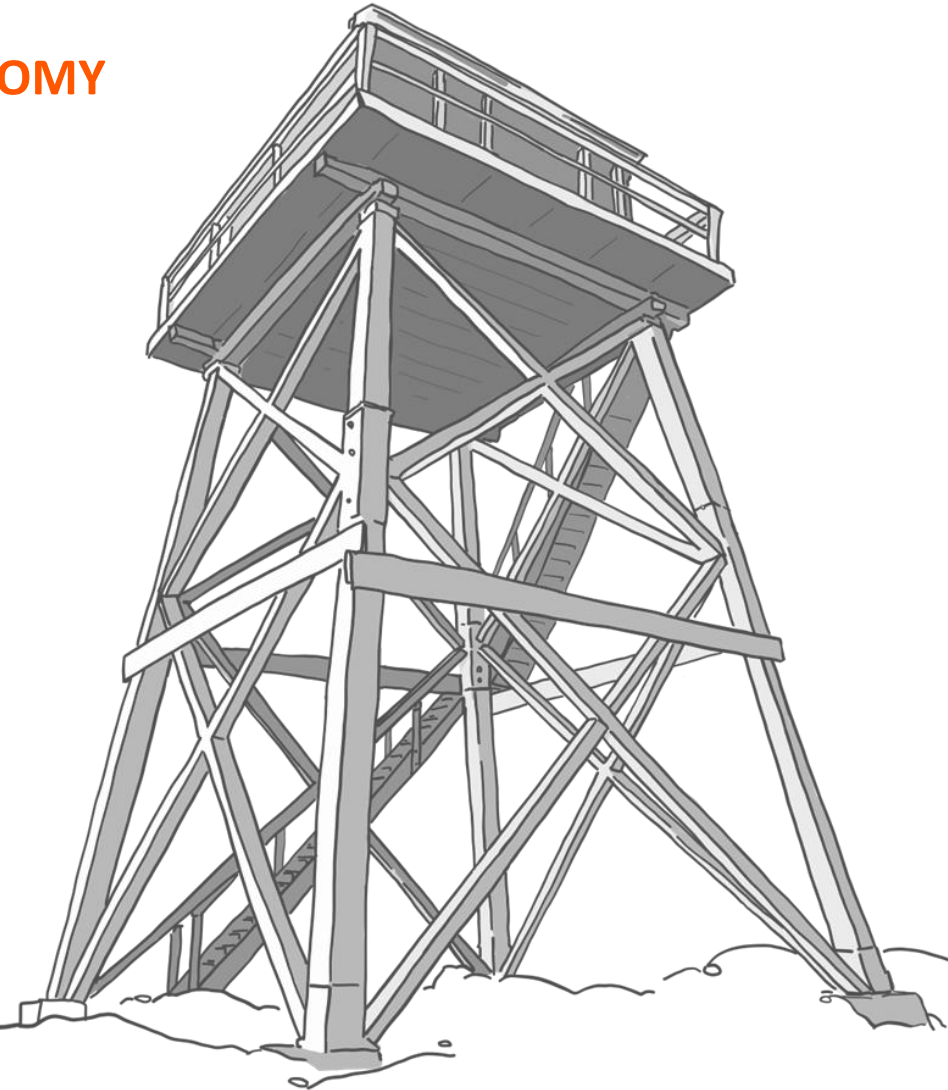
FUTURE OF OREI

OSU CENTER FOR THE OUTDOOR RECREATION ECONOMY

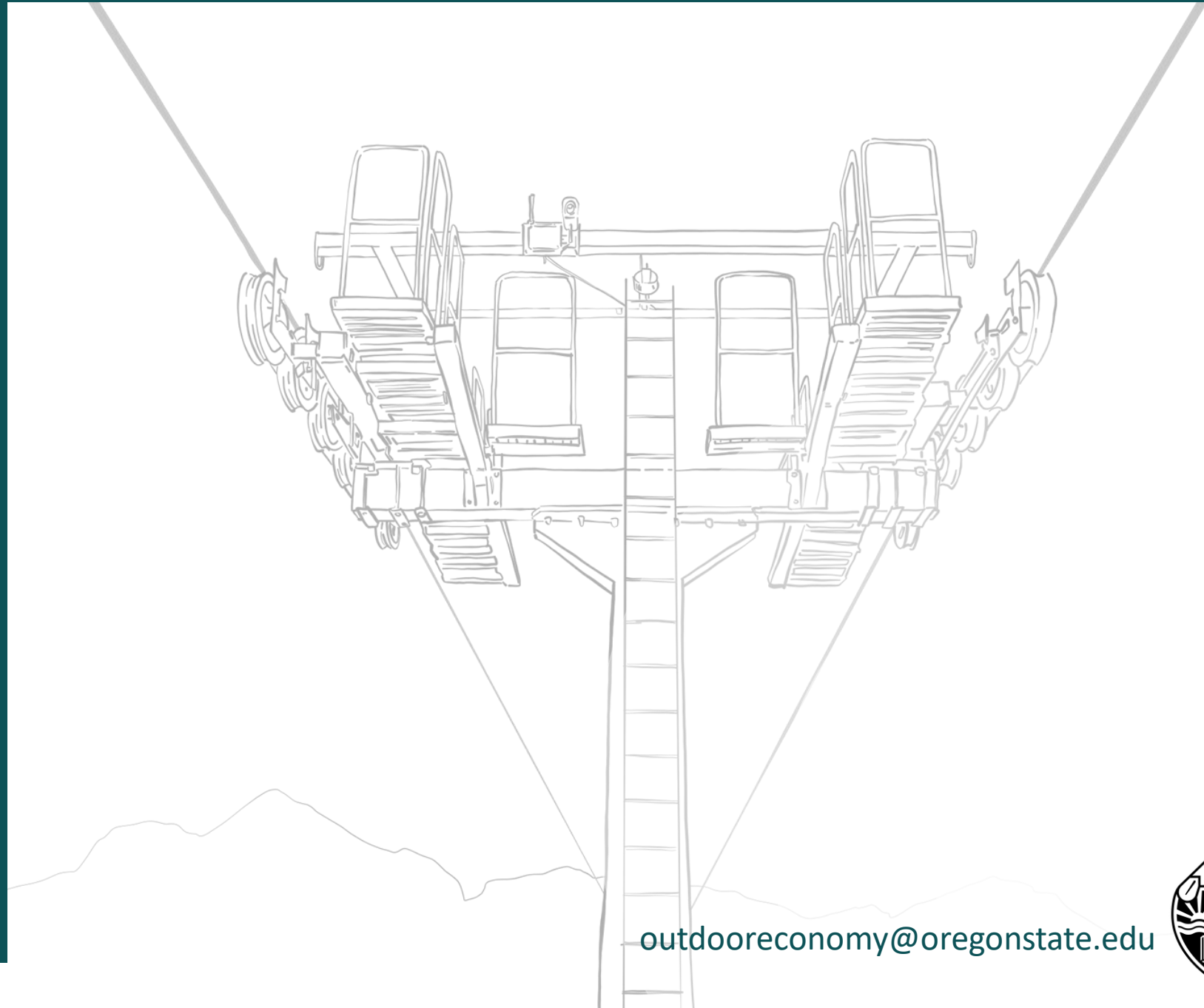
Vision: OSU is the national leader in supporting the outdoor recreation economy

Focus: Providing comprehensive workforce development solutions through applied research and industry-relevant educational programs

Association Partnerships: Providing insight into workforce needs, program development opportunities, support marketing/enrollment of developed programming.



Q & A



outdooreconomy@oregonstate.edu



THANK YOU



Oregon State
University

center for the
**OUTDOOR
RECREATION
ECONOMY**

outdooreconomy@oregonstate.edu

