Engineer Development School 2025 Executive Summary

Truckee Meadows Fire & Rescue



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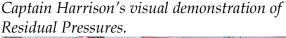
INTRODUCTION

Engineer Development School for 2025 was an exceptionally large lift for all parties involved. The largest EDS class previously was 18 students and this session we hosted 28. TMFR supported the Cadre's request to host two concurrent sessions to facilitate better instructor ratios and student learning. 7 Cadre members committed a total of 876 hours to this endeavor over several months of preparation and the delivery of 4 weeks of instruction. Countless other individuals assisted in various areas to make 2025 a successful academy.

In total, thirteen different apparatus were used throughout EDS across 4 unique locations. Roughly 16,225 feet of hose was pulled during each 2 week academy for a total of 32,450' (6.15 miles) over 4 weeks. Over the course of the month 2.2 million gallons of water was flown (yes you read that right).

The students themselves committed a total of 2800 hours of their own time to attend EDS unpaid. The remainder of the department stepped up and covered the numerous vacancies that were created across all three ranks.

Below I have finally delivered on a longstanding promise to educate the district on what all happens during Engineer Development School. The following is a small snapshot what is covered during the training.





Cadre: Nathan Harrison Brian Haley Geno Higman Austin Stowe Kyle Endres David Corbit Chris McNaught **Additional Instructors:** Todd Meckler **Ernest Stewart** Dillon Meade **Special Thanks:** Sparks Station 3 TMWA **TEC Trucking**

Session 1 Students:

Austin Rauh • Cameron Okuma • Jeffery Bode

Bernard Trejo •Leslie Parawan • Tyler Johnson

Tomas Soucek • Daniel Moriarty • Michael Visentin

Blake Miller • John Williams • Chris Perham

Bryan Harter • Jaden Protain



Session 2 Students:

Austin Fotinos • David Watson • Matthew Nuthall Daniel Rowe • Garrett Schafer • Kyle Colombini Payton Giambrone • Juris Vaskovskis • Martin Rowson Ryan Arnaud • Cameron Longobardo • Kason Clary Cameron Chappell • Federico Areco-Ruiz





Vehicle Maintenance:

-Walkthrough with mechanics of various Type 1

engines including:

-Components

-Safety Checks

-In service/Out of service criteria

-Troubleshooting

-Issue reporting

-Daily/Weekly service checks

-Fluid differentiation



Ladder Maintenance:

- -Walkthrough of Ladder specific systems
- -Stabilization in various conditions
- -Specialized system checks
- -Interlock familiarization and testing
- -Bucket placement drill for depth perception
- -Arial placement and building size up for various operations

-Foam Pro system capabilities, types and operations



Intro to Pumping:

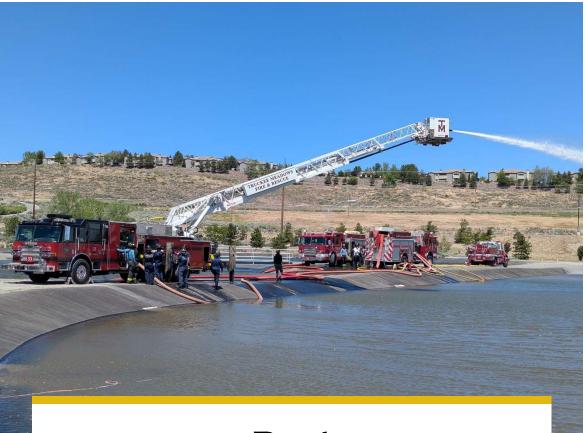
Five rotation day with stations covering: -Pumping from draft

-Pumping from hydrant with change overs

-Pumping from a nurse tender operation

-Pump Construction breakout class

-Pressure control systems class (Governor/PRV)



Demo Day:

-Dual vs Tandem Pumping

-Residual pressure demonstration (removing

opposite intake valve while flowing 1,000 GPM)

-Two stage pumps

-Relay Pumping

-Ladder pumping (through pump vs stick)

-Calculating Residuals

-2nd In Command class



EVOC/Vehicle Operations:

- -Cone Course (Multiple Type 1 Engines)
- Collision Avoidance/Controlled Braking drill
- -Ladder road course

- On Scene/Accident Operations breakout class



Week 2: Day 6

Wildland Operations:

-Model 14/Model 34/Type V Rotations including:

-Progressive uphill hose lay

-Drafting

-Mobile Attack

-Differentiate capabilities and pump

configurations of the different wildland apparatus

-WUI Operations breakout class



Advanced Pumping Day 1:

-Type 1 Change Overs and Spaghetti Factory

-Type 1 with nurse Tender supply

-Switch back to tank water/loss of supply -Type 1 to Type 1 simulated low flow hydrant relay

-Ladder pumping from its own hydrant

-Structure Fire placement and on scene operations class



Advanced Pumping Day 2:

-Multi-line evolution with equipment tracking

and hose line assignments

-Type 1 supply to Ladder direct and through pump

-Type 1 Jet Siphon multi tank Tender shuttle operation

-Blitz attack transition to multiple interior lines



Engine Company Evolutions:

-Dry line forward lay from hydrant

-Randomized hand lines deployed, and water

called for in real time

-Supply pumper arrives and relay pumps attack

pumper

-Both engineers coordinate flows needed and

pressures



Wrap up and State Testing:

-Wrap up any missed topics

-Rigs and Site rehabbed

-State Driver Operator test proctored

Rain or shine we're pumping all the time! Thank you to all those that contribute to make this program possible.