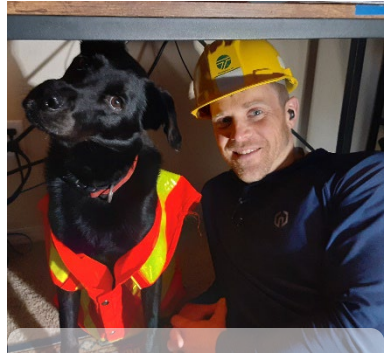
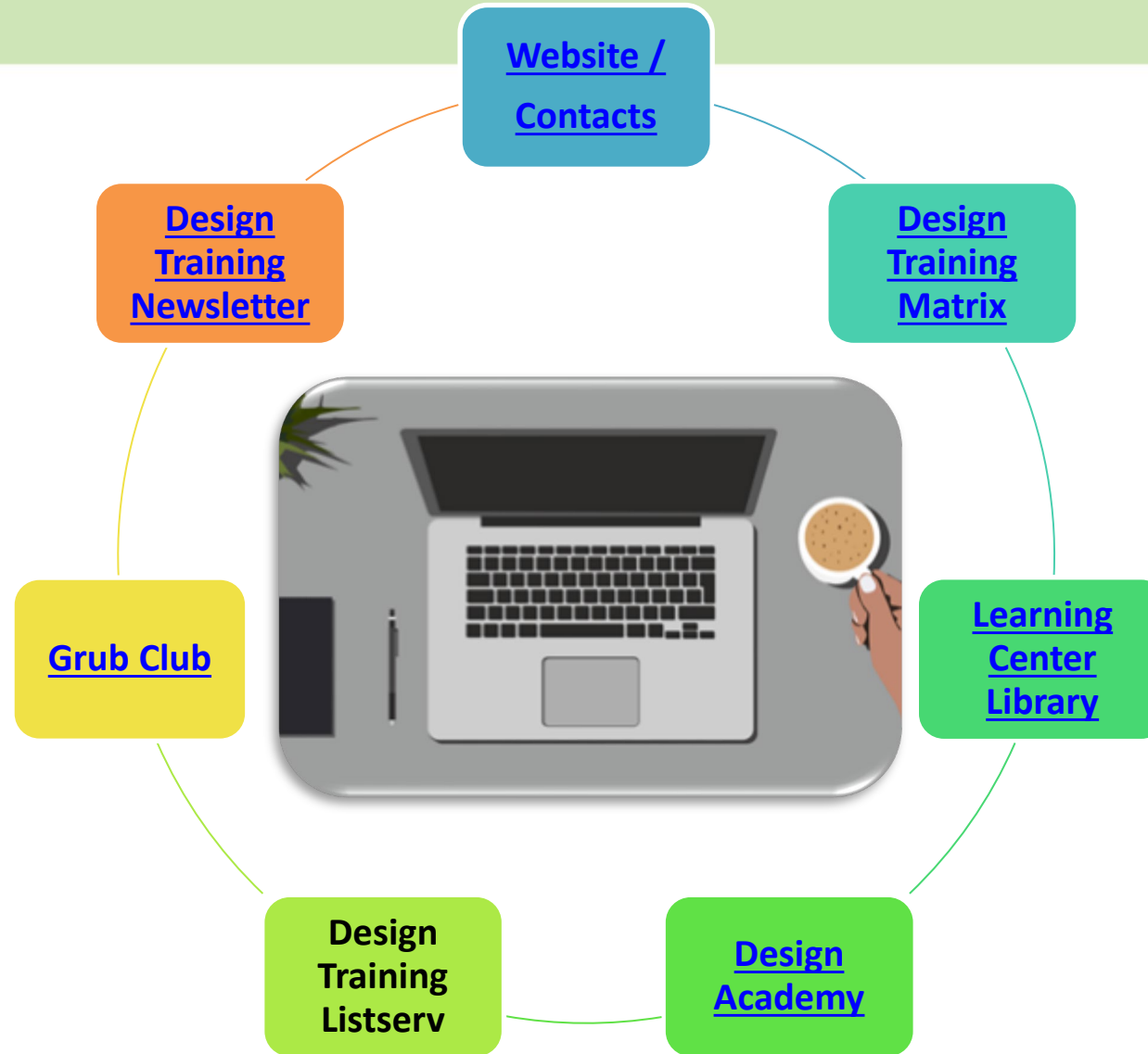


# Statewide Design Training Overview



**Dan  
Backman**



**Carol  
Winfrey**

(Text Blocks are Links to resources)

# Our Team



**We are part of the Headquarters Development Division  
in the Strategic Analysis and Estimation Office.**



One awesome team providing many outstanding services supporting Project Development



# How to find training, trainers and be informed

1. Design training resources can be found at:  
<https://wsdot.wa.gov/engineering-standards/project-management-training/training/design-training>
2. There is a list of specialized trainers [WSDOT-Training-Contacts.pdf](#)
3. There is a great document describing the specialty groups [specialty group descriptions and contact list](#) **Reach out early and often!!!!**
4. There is a “[Design Training News](#)” Listserv to receive emails. The Listserv includes the Training Newsletter, Monday Morning Minute, Grub Club, and all other training announcements. There are **600+ subscribers**.

# Design Training Newsletter

- Your source for Statewide Training Opportunities
- Monthly publication
- Upcoming training opportunities
- Grub Club Schedule
- Cost Trends analysis and estimating links.
- Design Manual Trivia
- Sign up via the Govdelivery/listerve email system

## Training Newsletter November 2025

Project development with an emphasis on design.

### Three-Point Estimating:

Three-point estimating is useful for determining a most-likely value for cost, duration, or resources. This estimating method helps reflect the normal real-world variability affecting projects. Estimates using this method offer a more realistic view of project risk.

## Training Newsletter October 2025

Project development with an emphasis on design.

### Pre-Academy Virtual Sessions available in the Learning Center:

As part of the Design Academy, students are required to participate in virtual pre-Academy sessions. These sessions are hosted by our specialty offices, offering subject matter expertise in key areas in support of the design process. If you didn't register for this year's Design Academy you can still benefit from these sessions. These sessions offer an excellent preview of the Academy and deliver information useful to designers. There are now 9 sessions available, covering topics such as shown streets, y, Traffic, and

## Training Newsletter September 2025

Project development with an emphasis on design.

### Contract Plans Reading Course:

WSDOT Construction Trainers offer the Contract Plans Reading Course. This course is frequently required on in-training plans statewide. This is a self-study course that can be completed on your own schedule. The materials are

## Training Newsletter August 2025

Project development with an emphasis on design.

### Design Training Overview

WSDOT offers many training resources available to employees statewide. Here is a preview of our Design Training Overview document. These resources can be accessed using the embedded links. [CLICK HERE](#) to access the overview document.

- [Design Training Website and Contacts](#). This includes resources for WSDOT employees and consultants. Links to common training courses, specialty contacts within WSDOT, project management, and more.
- [Design Training Matrix](#). This document lists common training courses recommended for WSDOT employees organized by job class. This can be used as a guide to determine training priorities.
- [Learning Center Library](#). This online collection of training resources is available to WSDOT employees 24/7. Search for training courses in the "WSDOT Design Training" Library.
- [Grub Club](#). This live presentation airs twice a month. Presenters from WSDOT and outside guests present on topics intended to increase your useful knowledge base. Click on "WSDOT GRUB CLUB" at the link location.
- [Design Academy](#). Our premier training event! This in-person training exercise takes participants through the Project Development process via virtual and in-person sessions and a team design project.
- [Design Training Listserve](#). Subscribe to this service to be notified of training opportunities, updates, and of course our monthly Design Training Newsletter!

re used to  
by  
tes high  
s risk for

nating

deo from  
irant

late

ources

Sort By: Name: A To Z ~

on project that will be...

2024\_OLT

ch discipline topic file...

ch discipline topic file...

INT

INT

INT

INT

INT

INT

INT

INT

INT

INT

INT

INT

INT

INT

INT

INT

# Design Training Newsletter

## Training Newsletter

### November 2025

Project development with an emphasis on design

#### Three-Point Estimating:

Three-point estimating is useful for determining a most-likely value for cost, duration, or resources. This estimating method helps reflect the normal real-world variability affecting projects. Estimates using this method offer a more balanced and accurate view of what a project might cost. Optimistic, pessimistic, and most-likely values are used to account for the unpredictability of real-world projects. This step incorporates a risk management strategy by providing a range of values, instead of a single-point value. A wide range of values for a single item indicates high uncertainty, suggesting a response action. A narrower range of values indicates higher confidence and less risk for that item.

**Three-point estimating uses three cost scenarios:**

**High estimate (Pessimistic):** If prices or quantities are higher than expected.

**Low estimate (Optimistic):** If prices or quantities are lower than expected.

**Most Likely (Anticipated):** Opinion of realistic value.

These three numbers combine to get an average cost using a simple formula:

Estimated Cost = [ Low + ( 4 × Most Likely ) + High ] ÷ 6

#### Community Engagement Resources:

The Community Engagement (CE) Team now offers an array new tools to support WSDOT needs. First the [CE Event Planning Best Practice](#) document provides helpful information for internal or external events. The new [Online Open House](#) tool allows for two-way dialogue, mapping tools, and the possibility for more engagement with projects online. In collaboration with Complete Streets, we have developed a [Community Engagement Playbook for Complete Streets](#). The [Community Engagement Share Point](#) is a great place for practitioners to get support!

For more information and support contact the Community Engagement Program Manager [Jessica Brand](#).

#### Grub Club 2026— Register by "Expressing Interest" [Click HERE to register!](#)

To view the previous Grub Club presentations, access the [Grub Club Library HERE](#).

**The Design Training Team is now recruiting for Grub Club presenters for 2026!** These popular sessions deliver information on a wide variety of topics relevant to our projects at WSDOT. We invite presenters to share topics to help WSDOT team-members learn more and grow their skillset. If you have a topic you are passionate about and you want to share with the audience, the invitation is now open to you! [Contact Mark Gabel for 2026 availability and to reserve a presentation date.](#)

12:00 pm to 1 pm	Presenter	Topic
November 5, 2025	Ning Gong & Adam Dahl	Estimating in Unifiter
November 19, 2025	Dan Backman & Carol Winfrey	WSDOT Training Resources

#### Trivia Question:

When is traffic barrier required around a retaining wall? **Answer on page 2.**

**Americans with Disabilities Act (ADA) Information:** This material can be made available in an alternate format by emailing the WSDOT Diversity/ADA Affairs team at [wdsdotada@wsdot.wa.gov](mailto:wdsdotada@wsdot.wa.gov) or by calling toll free, 855-362-4ADA(4232). Persons who are deaf or hard of hearing may make a request by calling the Washington State Relay at 711.

**Title VI Statement to the Public:** It is the Washington State Department of Transportation's (WSDOT) policy to assure that no person shall, on the grounds of race, color, national origin or sex, as provided by Title VI of the Civil Rights Act of 1964, be excluded from participation in, be denied the benefits of, or be otherwise discriminated against under any of its federally funded programs and activities. Any person who believes his/her Title VI protection has been violated, may file a complaint with WSDOT's Office of Equal Opportunity (OEO). For additional information regarding Title VI complaint procedures and/or information regarding our non-discrimination obligations, please contact OEO's Title VI Coordinator at (360) 705-7090.

Training opportunity articles

Sample of monthly cost trends report

Grub Club Schedule

Design Manual Trivia

## Training Newsletter

#### September 2025 Cost Trends Report:

The September 2025 Cost trends report shows the change in common material costs year-over-year. Below is a sample of the data from this report. [CLICK HERE](#) to view this and previous reports.

#### WSDOT Materials Cost Trend

	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	TREND
Highlighted cells - materials not used in DBB projects for referenced 6 mo. period							
ROADWAY EXCAVATION INCL. HAUL	\$ 46.40	\$ 49.46	\$ 40.75	\$ 36.64	\$ 36.73	\$ 36.19	
CONC. CLASS 4000 FOR BRIDGE			\$ 2,716.97	\$ 1,233.27	\$ 1,233.27	\$ 1,233.27	
CRUSHED SURFACING BASE COURSE	\$ 72.56	\$ 69.38	\$ 52.27	\$ 44.57	\$ 44.99	\$ 42.88	
CEMENT CONC. PAVEMENT	\$ 470.18	\$ 470.18	\$ 524.52	\$ 524.52	\$ 524.52	\$ 2,345.00	
HMA CL 3/4 IN. PG 58-22	\$ 128.00	\$ 121.68	\$ 122.77	\$ 123.12	\$ 123.12	\$ 122.40	
HMA CL 1/2 IN. PG 70-28	\$ 144.47	\$ 129.87	\$ 128.92	\$ 127.59	\$ 127.59	\$ 126.76	
COMMERCIAL HMA	\$ 448.02	\$ 297.11	\$ 319.38	\$ 301.49	\$ 284.48	\$ 241.91	

#### Association of General Contractors (AGC) Partnership with WSDOT:

The WA Association of General Contractors (AGC), Association of Drilled Shaft Contractors- International Association of Foundation Drilling (ADSC-IAFD) and WA State Department of Transportation (WSDOT) have teamed to improve public works construction projects across Washington. This partnership provides project reviews, construction advice, access reviews, staging advice, traffic management advice, and timeline and sequencing. There is an established Roadway Team, Structures Team, and Shaft/Wall team available. Access the flyer at the link below for more info including team contact information.

[AGC/WSDOT Team Review Flyer. CLICK HERE!](#)

#### Transportation Research Board + Free Webinars for WSDOT Employees:


As part of the National Academies of Sciences, Engineering, and Medicine, the Transportation Research Board (TRB) mobilizes expertise, experience, and knowledge to anticipate and solve complex transportation-related challenges. For example, committees, researchers, and staff are currently focused on advancing resilient infrastructure, exploring transformational technology, and caring for the public's health and safety. TRB's mission is divided into three primary roles: research, convene, advise. TRB offers over 150 publications annually, and currently manages over 350 research projects. Over 1.4 million transportation research records available in their online Transport Research International Documentation database (TRID). TRB's annual Meeting averages over 13,000 attendees, the largest transportation research conference in the world. TRB is offering a free account for WSDOT employees, which includes access to transportation webinars.

[Click here to access the Transport Research International Documentation database.](#)

[Click here to sign up for a MyTRB account.](#) (free for WSDOT employees).

[Click here to view scheduled TRB webinars and other events.](#)

[Click here for more information on the TRB annual meeting.](#)



TRANSPORTATION RESEARCH BOARD

#### Trivia Question Answer:

When is traffic barrier required around a retaining wall?

**Answer:** Provide traffic barrier when a new retaining wall is constructed within the Design Clear Zone. Installation of traffic barrier is optional when an existing wall with barrier is being extended and the new wall extension is located outside the project's Design Clear Zone. Retrofit an existing wall without barrier that is located within the project's Design Clear zone by providing traffic barrier. Depending on the application, precast or cast-in place Single Slope Concrete Barrier or Type F Concrete Barrier may be used for both new and existing walls. - Design Manual 730.03(1).

"Anticipation problems and figuring out how to solve them is actually the opposite of worrying. It's productive."

-Chris Hadfield

**Your hotlines to Design Training Information**  
**Carol Winfrey** / [winfrec@wsdot.wa.gov](mailto:winfrec@wsdot.wa.gov) - **Dan Backman** / [backmad@wsdot.wa.gov](mailto:backmad@wsdot.wa.gov)  
[Design Courses Training Matrix](#) & [Design Training](#)



# Design Training Courses Matrix

- Training guide for Technicians, Engineers, and Engineering Managers.
- Lists design training available in the Learning Center (LC) and the type of training that it is (links to LC).
- Recommends priorities for the different technician and engineering job classes. Please contact us to tailor your training needs.

Design Courses Training Matrix - Learning Center (LC) Courses and Priority Recommendations

LC Group	Learning Center (LC) Course Name	Hours	Type SS OLT ILT	TT2-3	TE1-2	TE3	Manager	Recommended Attendees
DES	<a href="#">WSDOT ACCESS CONTROL OLT</a>	4	OLT	3	3	2	2	Staff involved with WSDOT owned roadways which all have Limited or Managed Access Control
DES	<a href="#">WSDOT DES: BASIS OF ESTIMATE</a>	1	OLT	3	3	3	3	Staff involved with project estimates
DES	<a href="#">WSDOT DES: COGNITIVE BIAS</a>	1	OLT	3	3	3	3	All staff
DES	<a href="#">WSDOT DES: CONSTRUCTABILITY IN DESIGN</a>	4	OLT	3	2	1	2	Staff involved in planning, scoping, design, and construction

# Learning Center “WSDOT Design Training” Library

- This library matches the Design Training Courses Matrix.
- Navigate to Library > “WSDOT Design Training” > Search.

The screenshot displays the WSDOT Learning Center interface. At the top, the navigation bar includes the WSDOT Learning Center logo, user roles (SELF, MY TEAM, ADMINISTRATION), and a search bar. The left sidebar contains icons for Home, Timeline, Library (highlighted), All Users, Learning Activities, Training Transcript, and Training Schedule. The main content area is titled 'LIBRARY' and shows the path 'Library / WSDOT Design Training'. Below this, a description states: 'Browse and search for available learning activities. You can use the Topics tab to narrow your results by subject and the Filters tab to apply additional criteria (such as the activity type or duration).' The 'TOPICS' tab is active, showing a list of topics. The 'WSDOT Design Training' topic is highlighted with a red box. A red arrow points from this topic to the search bar in the 'WSDOT DESIGN TRAINING' section. The search bar contains the text '\*contract spec'. Below the search bar, a message states '10 of 10 results for "\*contract spec"'. The search results show two online courses: 'WSDOT Contract Plans Review OLT' and 'WSDOT DES: CONTRACT SPEC WRITING - MODULE 01 INTRODUCTION\_1 OF 8 @ 24 MINUTES'. The first course is highlighted with a red box.

WASHINGTON STATE  
LEARNING  
CENTER

SELF ▾ MY TEAM ▾ ADMINISTRATION ▾

Learning ▾ Search

Home  
Timeline  
Library  
All Users  
Learning Activities  
Training Transcript  
Training Schedule

Library / WSDOT Design Training

## LIBRARY

Browse and search for available learning activities. You can use the Topics tab to narrow your results by subject and the Filters tab to apply additional criteria (such as the activity type or duration).

**TOPICS** **FILTERS**

- All
- ONEWA WORKDAY
- Prosci Training
- > WA State Enterprise Training
- > WSDOT Accounting & Finance Services
- WSDOT Complete Streets
- > WSDOT Continuous Improvement
- > WSDOT Culture of Belonging
- WSDOT Design Training**
- WSDOT Environmental

### WSDOT DESIGN TRAINING

[Share Topic](#)

\*contract spec

10 of 10 results for "\*contract spec"

Sort By: Name: A To Z ▾

ONLINE COURSE  
**WSDOT Contract Plans Review OLT**  
The Contract Plans Review course provides an overview about preparing contract plans and estimates for PS&E. The course provid...  
WSDOT\_Contract\_Plans\_Review\_OLT

ONLINE COURSE  
**WSDOT DES: CONTRACT SPEC WRITING - MODULE 01 INTRODUCTION\_1 OF 8 @ 24 MINUTES**  
In this course, you will be introduced to WSDOT Special Provisions - which are Contract Provisions that are part of the Contract for ...  
WSDOT\_DES\_CSW\_Mod\_1

# Additional Training Coordinated by...

## Monday Morning Minute

This is a weekly email from the listserv on new and interesting topics.



**Mark Gabel**

[gabelM@wsdot.wa.gov](mailto:gabelM@wsdot.wa.gov)

**360-705-7457**



## “WSDOT DES: 2025 Grub Club” – Sample topics:

1st Wed of the month	Amy Kim & Sarah Thomasson	DES – Facility Professional Services – Energy; Radio station or Forest Learning Center project
3rd Wed of the month	Scotty Ireland, Forrest Dill, Mark Steingrebe.	Cost Estimating, practical experience from the OR fish passage bundles
1st Wed of the month	Mark Gabel	Design Academy, Project Management and other tips
3rd We of the month	Tony Leingang, Steve Haapala, John Romero	Work zone traffic control
1 <sup>st</sup> Wed of the month	Mark Sujka	Risk Management – Design Academy



# Grub Club Library and Recordings

Grub Club is a yearlong series of 1-hour of bi-weekly sessions that offer a diverse array of topics and presenters. Time to sign up by using “Express Interest” in [WSDOT DES: 2026 Grub Club](#)

The screenshot shows the WSDOT Grub Club Library interface. On the left is a sidebar with navigation icons: Home, Timeline, Library (highlighted with a blue arrow), All Users, Learning Activities, Training Transcript, and Training Schedule. The main content area is titled 'LIBRARY' and includes a breadcrumb trail: Home / Library / WSDOT Grub Club. Below the title is a description: 'Browse and search for available learning activities. You can use the Topics tab to narrow your results by subject and the Filters tab to apply additional criteria (such as the activity type or duration).' The interface is divided into two main sections: 'TOPICS' and 'FILTERS'. The 'TOPICS' section lists various topics, with 'WSDOT Grub Club' highlighted by a blue box and a blue arrow pointing to it. The 'FILTERS' section is currently empty. The right side of the interface shows the search results for the query '\*2025'. A search bar at the top right contains the text '\*2025' and a magnifying glass icon. Below the search bar, a message states '3 of 3 results for "\*2025"'. The results are sorted by 'Name: A To Z'. The first result is an 'ILT COURSE' titled 'WSDOT DES: 2025 Grub Club', which includes a description: 'To Join Grub Club please "Express interest" on the "Registration" page and you will receive the MS Teams meeting invitation. Grub ...' and a code 'WSDOT\_DES\_GC\_2025'. The second result is an 'ONLINE COURSE' titled 'WSDOT DES: 2025 GRUB CLUB 1-15-25 Complete Streets Deferrals', with a description: 'January 15th 2025 Grub Club recording of Complete Streets Deferrals.' and a code 'WSDOT\_DES: 2025 GRUB CLUB\_1-15-25\_Complete Streets Deferrals'. The third result is a 'DOCUMENT' titled 'WSDOT DES: 2025 GRUB CLUB 24 FE-EIT PART 7', with a description: 'This recording is part 7 of an ongoing series of FE/EIT review sessions. The intro includes a review of information from sessions #1 t...' and a code 'WSDOT\_DES: 2025 GRUB CLUB\_24\_FE-EIT\_PART\_7'. Each result includes a pencil icon, a heart icon, and a share icon.

Home / Library / WSDOT Grub Club

## LIBRARY

Browse and search for available learning activities. You can use the Topics tab to narrow your results by subject and the Filters tab to apply additional criteria (such as the activity type or duration).

TOPICS

FILTERS

[All](#)  
[ONEWA WORKDAY](#)  
[Prosci Training](#)  
> [WA State Enterprise Training](#)  
> [WSDOT Accounting & Finance Services](#)  
[WSDOT Complete Streets](#)  
> [WSDOT Continuous Improvement](#)  
> [WSDOT Culture of Belonging](#)  
[WSDOT Design Academy](#)  
[WSDOT Design Training](#)  
[WSDOT Environmental](#)  
[WSDOT GIS Training](#)  
[WSDOT Grub Club](#)  
> [WSDOT Learn Forward](#)

### WSDOT GRUB CLUB

[Share Topic](#)

\*2025

3 of 3 results for "\*2025"

Sort By: Name: A To Z


**ILT COURSE**  
**WSDOT DES: 2025 Grub Club**  
To Join Grub Club please "Express interest" on the "Registration" page and you will receive the MS Teams meeting invitation. Grub ...  
WSDOT\_DES\_GC\_2025

**ONLINE COURSE**  
**WSDOT DES: 2025 GRUB CLUB 1-15-25 Complete Streets Deferrals**  
January 15th 2025 Grub Club recording of Complete Streets Deferrals.  
WSDOT\_DES: 2025 GRUB CLUB\_1-15-25\_Complete Streets Deferrals

**DOCUMENT**  
**WSDOT DES: 2025 GRUB CLUB 24 FE-EIT PART 7**  
This recording is part 7 of an ongoing series of FE/EIT review sessions. The intro includes a review of information from sessions #1 t...  
WSDOT\_DES: 2025 GRUB CLUB\_24\_FE-EIT\_PART\_7

# Project Management Guide

[Watch Overview Video](#)

 Washington State  
Department of Transportation

## Project Management Guide


### About the PMG


The Project Management Guide (PMG) offers resources for project management best practices from project initiation to close out.

This guide is focused on traditional design-bid-build project management; alternative delivery can follow similar guidance\*.

Find examples and templates to support project managers in each step in the process.

Adjust the process and content to fit your project.

Click on any of the  symbols or icons to discover templates, tools, materials, training, examples, resources, and contacts. A quick learning guide can be found [here](#).

[New Project Management Guide Website Overview](#) 


#### Project Definition

Develop Project Profile / Definition, Draft BOD & ERS

#### Launch Project, Studies, & Pre-Design\*

Draft Studies, Project Mgmt Plan, & Pre-Design (0% - 5%)

Final Studies & Geometric Design (5% - 30%)

[Launch New Project](#) 

#### Design, Right of Way, Environmental, & Permitting\*

Design & Constructability (10% - 60%)

Pre-Contract (60% - 90%)

Final Review (90% - 100%)

Final Approval (100% - Ad)

Ad, Bid, Award

#### Construction\*

Pre-Con

Construction

Contract Mgmt

Close Out

Maintenance

#### Project Management Knowledge Areas

- Launch & Manage
- Quality
- Procurement
- Scope
- Resources & Team
- Stakeholders
- Schedule
- Communications
- Cost / Budget
- Risk & Uncertainty

#### Project Performance Domains

- Stakeholders
- Project Work
- Resources & Team
- Delivery
- Project Approach
- Measurement
- Planning
- Risk & Uncertainty

#### Disciplines and SMEs

#### Project Management Principles

# Design Academy – Once per Year



Premier Design Training event. It takes participants through the Project Development process via virtual and in person sessions by key support groups, as well as a team design project.

## WHO?

Design Academy is recommend for design engineers, team leaders, support offices, and others interested in the design process.

## WHY?

This blended learning experience has virtual instructor led pre-academy sessions and 4 days of in person training.

## HOW?

Region and division management identify the students. Inform your region or division manager contact of your interest in attending Design Academy.

Contact Your Registration Coordinators:

NWR Sno King	Hung Huynh
NWR Mt Baker Area	Shane Spahr
NCR	Michael Roy
OR	Karen Boone
SWR	Caroline Bricheux
SCR	Brent Schilperoort
ER	Thomas Brasch
HQ	Your division manager
Mega	Dawn Yankauskas
WSF	Chun-Ho Chen

(Attendees are selected by Region/Division Managers)

# Virtual and In Person Sessions



## Pre-Academy

Sessions provide lecture intro to all the topics to jumpstart learning.

They are done live and then recording is available for make up.

Pre-Academy Session	Interactive Sessions at Conference
Design Documentation (course)	Creating a Balanced Design
Design Analysis (course)	Creating a Balanced Design
n/a	Hydraulics Fair
Real Estate Services	Real Estate Services
Traffic	Traffic
Environmental	Environmental
Geotech	Geotech
Utilities	Utilities
Right of Way	Right of Way
Bridge and Structures	Bridge and Structures
Estimating: Unit Bid Price	n/a

## In person

engaging and/or hands on experience with the topic.

This goes deeper into subjects and prepares student to incorporate them into their team project



# Pre-Academy Sessions

- Available in the learning center for student make up and reference.
- All WSDOT employees can use as an overview of the specialty groups.

The screenshot displays the WSDOT Design Academy interface. On the left is a sidebar with navigation options: Expand, Home, Timeline, Library, All Users, Learning A..., Training Tr..., and Training Sc... The Library option is highlighted. Below it, a list of topics is shown under the 'TOPICS' tab, including All, EQUITY, ONEWA WORKDAY, Prosci Training, > WA State Enterprise Training, > WSDOT Accounting & Finance Services, WSDOT Complete Streets, > WSDOT Continuous Improvement, > WSDOT Culture of Belonging, **WSDOT Design Academy** (highlighted with a red box), WSDOT Design Training, > WSDOT EESS, WSDOT Environmental, WSDOT GIS Training, WSDOT Grub Club, and > WSDOT Learn Forward. A red arrow points from the 'WSDOT Design Academy' link in the sidebar to the 'WSDOT DESIGN ACADEMY' header in the main content area. The main content area has a 'Share Topic' link and a search bar containing '\*'. Below the search bar, it shows '10 of 10 results for "\*"'. The results are sorted by 'Date Created: Newest To Oldest'. The first result is a 'DOCUMENT' titled 'WSDOT DES: 2025 Grub Club - 10-15-25\_Preliminary Bridge Plans (DA Pre-Academy 2025)'. The second result is an 'ONLINE COURSE' titled 'WSDOT DES: Design Academy Prerequisite - Complete Streets 2025\_OLT'. The third result is an 'ONLINE COURSE' titled 'WSDOT DES: Design Academy Prerequisite - Environmental 2025\_OLT'. The fourth result is an 'ONLINE COURSE' titled 'WSDOT DES: Design Academy Prerequisite - Geotech 2025\_OLT'.

**WSDOT DESIGN ACADEMY**

[Share Topic](#)

\*

10 of 10 results for "\*" Sort By: Date Created: Newest To Oldest

**DOCUMENT**

**[WSDOT DES: 2025 Grub Club - 10-15-25\\_Preliminary Bridge Plans \(DA Pre-Academy 2025\)](#)**

WSDOT DES: 2025 Grub Club - 10-15-25\_Preliminary Bridge Plans

WSDOT DES: 2025 Grub Club - 10-15-25\_Preliminary Bridge Plans

**ONLINE COURSE**

**[WSDOT DES: Design Academy Prerequisite - Complete Streets 2025\\_OLT](#)**

Slides available in reference material below. This is part of a series of Prerequisite courses for the Design Academy and recommen...

WSDOT DES: Design Academy Prerequisite - Complete Streets\_2025\_OLT

**ONLINE COURSE**

**[WSDOT DES: Design Academy Prerequisite - Environmental 2025\\_OLT](#)**

Slides available in reference material below. This is part of a series of Prerequisite courses for the Design Academy and recommen...

WSDOT DES: Design Academy Prerequisite - Enviromental\_2025\_OLT

**ONLINE COURSE**

**[WSDOT DES: Design Academy Prerequisite - Geotech 2025\\_OLT](#)**



# Design Academy - 2025



**September 29 – October 2, 2025**



- Our premier training event
- In-person and virtual combination delivery
- 8 required pre-Academy sessions (virtual)
  - + 2 Training Courses:
    - Design Documentation
    - Design Analysis
- 9 in-person interactive sessions
- 10 teams working on real WSDOT projects
- 4<sup>th</sup> Design Academy since re-inception in 2023
- Each Academy builds upon previous lessons learned, to deliver an ever-improving experience

**Attendees selected by Region/Division Contacts**



# Design Academy - Highlights



- Example of student experience at interactive sessions



Hydraulics session: virtual reality inspection



Hydraulics session: stream simulation table



# Design Academy - Highlights



- Example of student experience at interactive sessions



ASDE Panel provides expertise and networking



Team Project work with Team Guide/SME coaching



# Design Academy - Highlights



- Example of student experience at interactive sessions



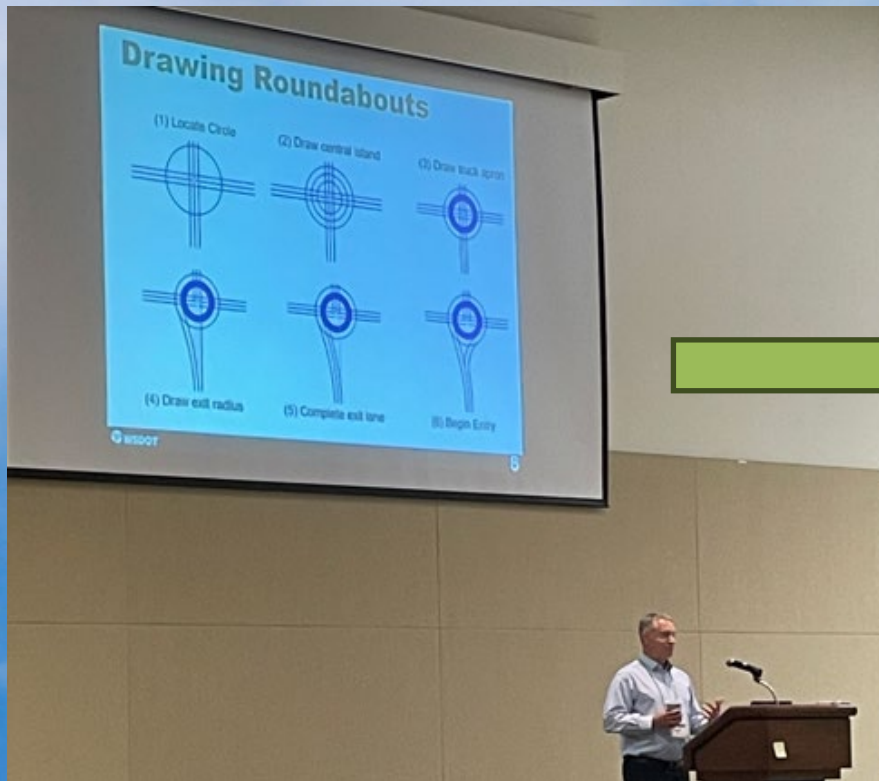
Hydraulics Session: Student learning about remote culvert inspection equipment



# Design Academy - Highlights



- Example of student exercises at interactive sessions



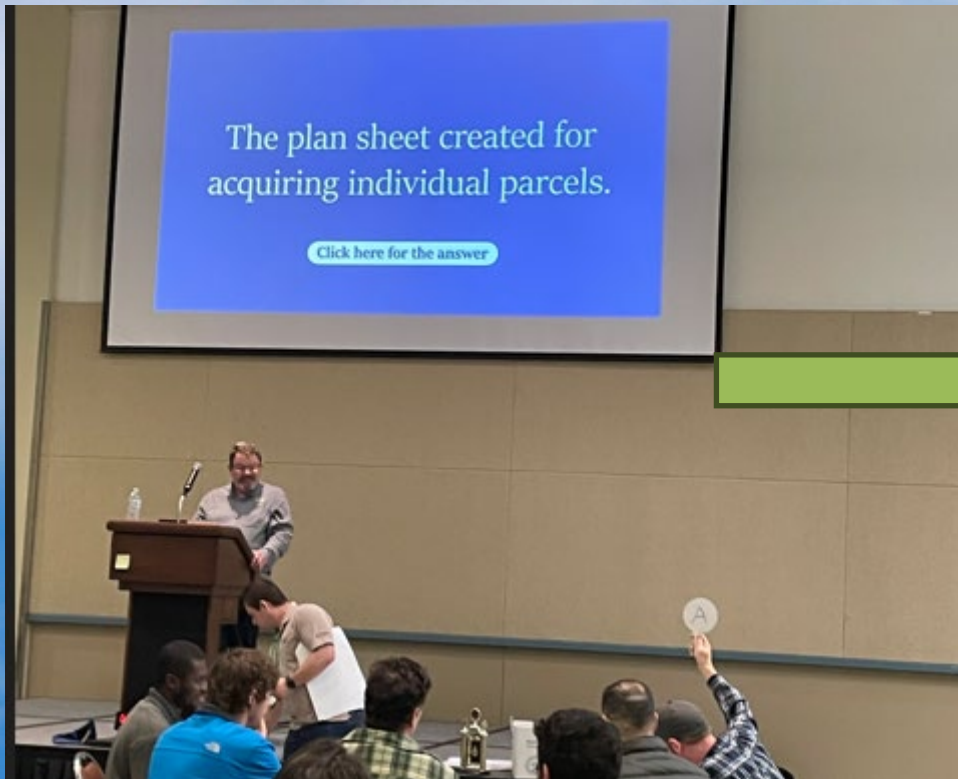
Traffic Interactive Session, intersection design



# Design Academy - Highlights



- Example of student exercises at interactive sessions



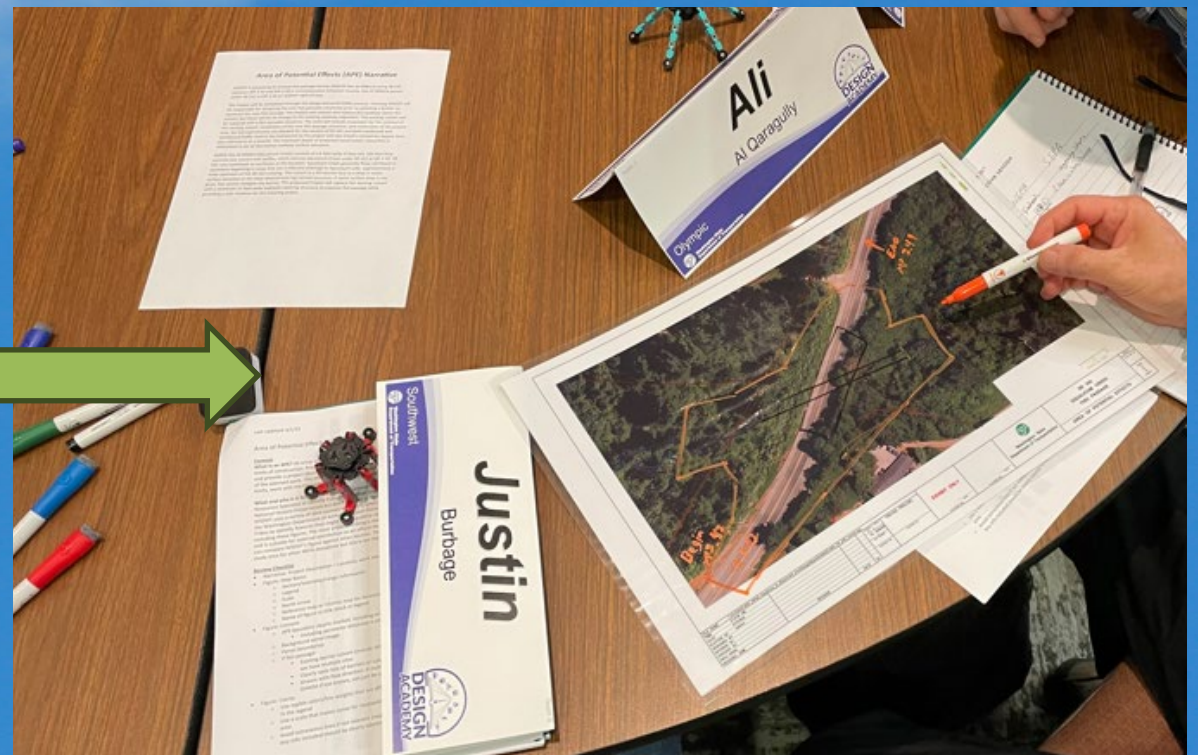
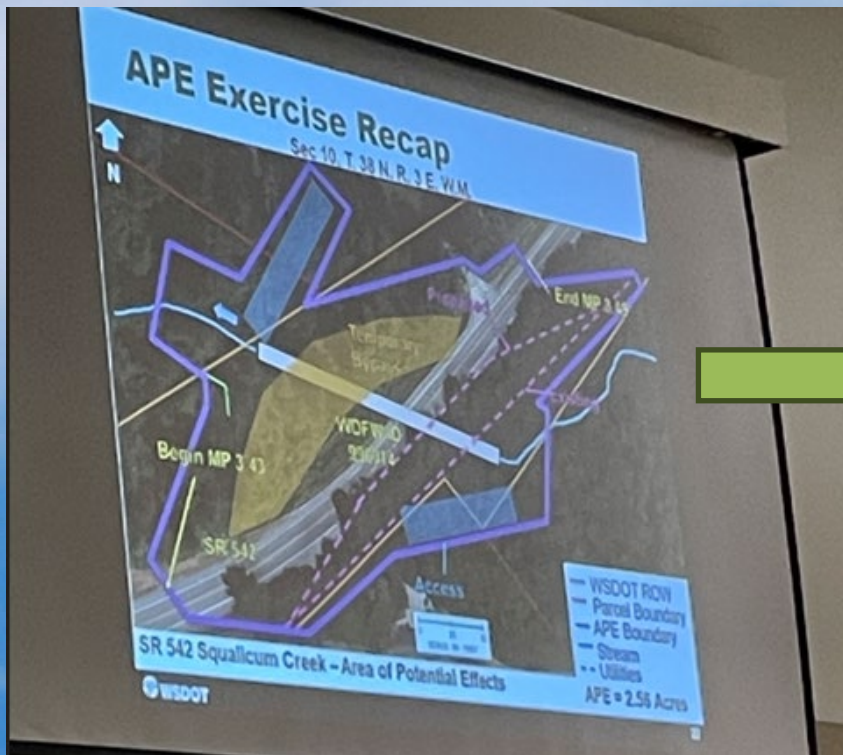
Survey interactive Session, plan sheet trivia



# Design Academy - Highlights



- Example of student exercises at interactive sessions



Environmental Interactive Session, APE exhibit



# Team Project



- Students are assigned to a team and a design project prior to the academy. 10 teams, with approximately 8 Students, with Team Guides and Subject Matter experts available.
- Students gain base knowledge, interact with the experts, and demonstrate learning through discovery and real-world experience.
- There is a virtual meet and greet for teams to get acquainted before the Academy, 8 hours working time during the Academy, and an open house for teams to present their project at the end.





# Design Academy - Highlights



- Example of student team project work

BASLINE NEED = SAFETY

BACKGROUND: TO REDUCE THE POTENTIAL FOR FATAL AND SERIOUS CRASHES AT INTERSECTIONS BY CONSTRUCTING A COMPACT ROUNDABOUT PER THE 12 PREVENTION SYSTEMIC SAFETY PROGRAMMATIC STRATEGY.

CONTEXTUAL NEEDS = ACTIVE TRANSPORTATION SAFETY PERFORMANCE

BACKGROUND: THERE IS A SCHOOL EAST OF THIS INTERSECTION, WITH SIGNIFICANT POTENTIAL FOR FOOT AND BICYCLE TRAFFIC LINKING THIS AREA WITH THE TOWN OF DEMING. DEVELOPMENT EAST OF THE PROJECT HAS ALSO BEEN PROPOSED. THIS INTERSECTION SAFETY IMPROVEMENT WILL ALSO IMPROVE LEVEL OF SERVICE FOR THIS CONTEXTUAL NEED.

ALTERNATIVE	COST	SAFETY	OPERATIONAL AND SAFETY PERFORMANCE
Compact Roundabout	Average	Better	
No Build	Best	Average	Best
Signalized Intersection	Worse	Worse	Worse
			Better

Baseline and contextual needs + alternative comparison

Alternatives Comparison

#	Description	Cost	Ops	Safety	BVI: Passage	Pedestrian	Bicycle Route Directness	CMZ: Clearance	CMZ: Stormwater Treatment	Guardrail Impacts	Construction
A	Bridge Structure (soldier pile)	BBB	●	●	met	NA	NA	●	●	●	●
B	4 sided box structure	BBB	●	●	met	na	na	●	●	●	●
C	3 sided box structure	BBB	●	●	met	na	na	●	●	●	●
D	No Build	NA	●	●	not met	na	na	●	●	na	na

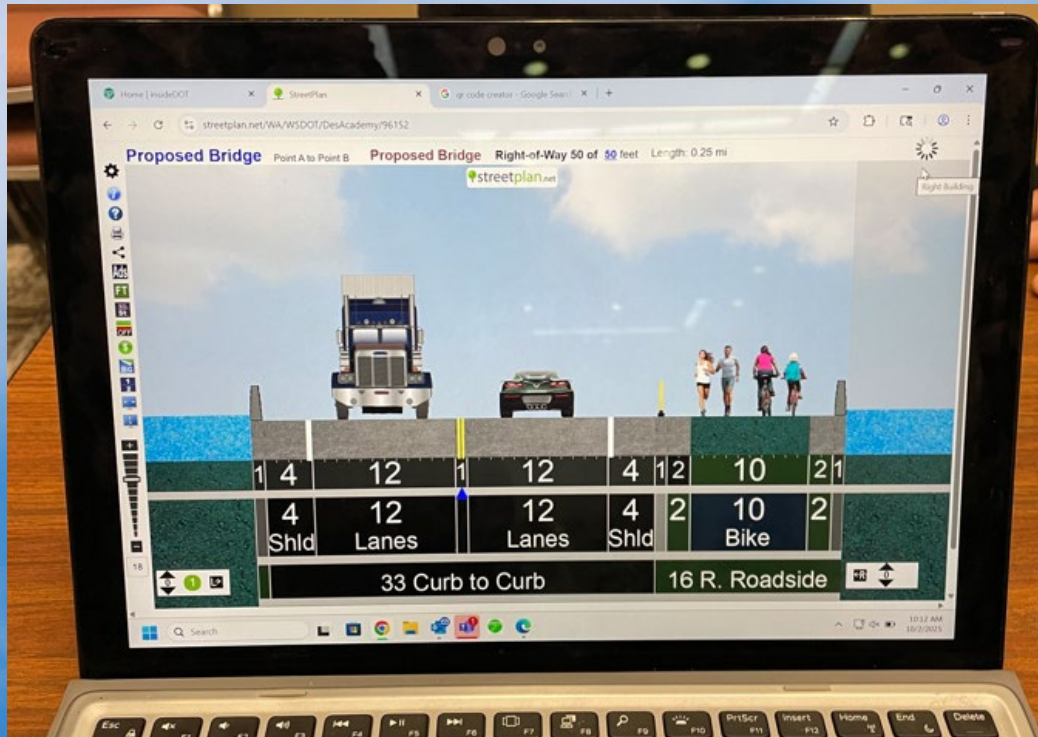
Alternative comparison table



# Design Academy - Highlights



- Example of student project work



Student cross-section with active transportation and complete streets incorporated



Alternative sketch with traffic, APE, ROW limits shown



# Design Academy - Highlights



- A big thank you to all who attended and helped deliver the Best Design Academy ever!



Design Academy 2025 was the BIGGEST and BEST yet, 80 students, 10 teams, and ≈40 facilitators.

# Design Training Survey Coming

- ❑ Our design training team is committed to developing and delivering high quality training that our customers need *and* want.
- ❑ Completing this brief survey will inform and guide our training priorities.



**The survey will be open December 8<sup>th</sup> through 19<sup>th</sup>**

## Pending Results of Design Training Survey:

- Intersection Design Course
  - 2 offerings planned
  - Feb 10-12 2026 (8am-12noon)
  - March 10-12 2026 (8am-12noon)
- Risk Workshop Training
- PE Review Courses
- Geometrics Courses



# Learner Centered with Engagement as Our Goal

*“Tell me and I forget. Teach me and I remember.  
Involve me and I learn.” ~ Benjamin Franklin*

## **Contact Design Trainers:**

**Dan Backman**

**564-669-4742**

**[dan.backman@wsdot.wa.gov](mailto:dan.backman@wsdot.wa.gov)**

**Carol Winfrey**

**360-522-0603**

**[carol.winfrey@wsdot.wa.gov](mailto:carol.winfrey@wsdot.wa.gov)**

