

Request for Extended Travel

NAME: Matt Grubbs

DATE: 6.10.2013

DEPT/BUILDING Portland Christian Schools

PURPOSE: PCS has been lacking in STEM education, especially with a focus on engineering. Principles of Engineering will provide a needed focus on engineering and design elements of standards.

DISTRICT BENEFIT: To be able to implement Principles of Engineering at Portland Christian Schools.

TRAVEL DETAILS: 1. DESTINATION: Oregon Inst. of Technology, 3201 Campus Dr, Klamath Falls, OR 97601
2. DATES: 7/7 - 7/19/2013

<i>ESTIMATED EXPENSES:</i>	<i>DESCRIPTION</i>	<i>COST</i>
TRAVEL	Miles to and from event: 476 @ 55.5 cents per mile	\$264.18
TRAVEL	Miles to and from event from place of stay in Klamath Falls: 4.3 @ 55.5 cents per mile	\$57.36
MEALS	Dinner - \$33 X 13 Nights	\$429
LODGING	Klamath Falls KOA Campground 12 nights @ \$25 per night Taxes: \$27	\$327
REGIS/FEES	Registration: \$2,250	\$2,250
TOTAL		\$3,327.54

BUDGET SOURCE(S):

1. Title II:

- Registration: 230.3370.0641.854.000.000
- Mileage/Per Diem/Lodging: 230.3370.0342.854.000.000

Matt Grubbs 6/19/13

SUPERVISORS RECOMMENDATION AND COMMENTS:

Title 11A required that districts provide equitable services to private schools. This request is allowable and matches the ~~district's~~ private school's improvement plan.

SUPERVISOR SIGNATURE



SEND FORM TO SUPERINTENDENT/DESIGNEE:

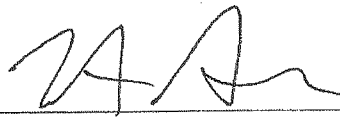
SUPERINTENDENT/DESIGNEE RECOMMENDATIONS/COMMENTS:

OK K Gray 6/20/13

BOARD ACTION: _____ APPROVED _____ DISAPPROVED _____ DATE: _____

I AGREE THAT ALL OF THE INFORMATION ON THIS FORM IS ACCURATE AND TRUE TO THE BEST OF MY KNOWLEDGE.

EMPLOYEE SIGNATURE:

 (Matt Gubbs)

DATE:

6/12/13

Scenic Fore... Face to face... Amazon.com... p... city... h... and a... Your PL... San J... Klamath... Oregon Institute

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Google 3435 Shasta Way Klamath Falls, OR

Get directions My places

A OIT
 Did you mean a different OIT?

B 3435 Shasta Way, Klamath Falls, OR
 Add destination - Show options

Suggested routes

OR-39 S/Crater Lake Pkwy 4.3 mi, 10 mins
 US-97 BUS S and OR-39 BUS S 4.2 mi, 14 mins

Driving directions to 3435 Shasta Way, Klamath Falls, OR 97603

A Oregon Institute of Technology: Glidden
 Alcott B Bldg
 3201 Campus Dr
 Klamath Falls, OR 97601

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4:33 PM 02/19/2015

Scenic Fore... Face to face... Amazon.com... p... city... h... and a... Your PL... San J... Klamath... Portland Christ...

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Google 3435 Shasta Way Klamath Falls, OR

Get directions My places

A Portland Christian Schools, Northeast San Ra...
 12425 NE San Rafael St
 Portland, OR 97230

B 3435 Shasta Way, Klamath Falls, OR
 Add destination - Show options

Suggested routes

I-5 S, OR-58 E and US- 280 mi, 5 hours 9 mins
 97 S/The Dalles-California Hwy
 US-26 E and US-97 S 236 mi, 9 hours 46 mins

Driving directions to 3435 Shasta Way, Klamath Falls, OR 97603

A Portland Christian Schools
 12425 NE San Rafael St
 Portland, OR 97230

1. Head west on NE San Rafael St toward NE 125th Ave

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4:33 PM 02/19/2015

Parkrose School District

**TitleIIA Preparing, Training and Recruiting
High Quality Teachers and Principals**

Application for Funds

School Portland Christian

Date 5/16/13

Requested by Matt Grubbs

1. Statement of Need: What student need is this request responding to and how were the needs identified? What data/assessment information supports the need?

PCS has been looking in STEM education, especially with a focus on engineering. Principles of Engineering will provide a needed focus on engineering + design elements of standards.

2. Who is involved in the planning, designing, and implementing of this training? (Describe how there will be systematic consultation with teachers, parents, and other groups involved in the implementation of this training.)

The training is provided at OIT by PLTW personnel. I will be attending the training and implementing it at PCS.

3. Goal: Overall, what do you plan to accomplish with this training?

To be able to successfully implement POE at PCS.

4. Describe specific training proposed. Conference (w/dates, etc. or trainer, etc.) Please be specific for each training proposed.

July 7-19

5. What are the specific instructional objectives to be addressed by this training? What will **students** know and be able to do as a result of this project?

The training is designed to equip teachers to successfully teach the POE course, especially in relation to projects.

6. How will you know that staff is using the training in the classroom? What actions will the school monitor?

Administration will monitor & review the class.
A test by PLTW is also to be administered at the end of the course to assess student learning.

7. What evidence will you use to determine if the strategy is having an impact on student learning?

See above in relation to the end-of-course assessment.

8. Person responsible for oversight of the implementation and evaluation:

Jim Hill

9. Timeline:

2013-2014 school year

10. Estimate Costs (detailed budget for all costs for this activity)

Include specific costs: (i.e., registration for conference, travel costs, trainer costs, etc.)

Registration: \$2250

Room + Board: \$327

Travel to + from Klamath Falls: \$230

Daily travel to OIT: \$1.60

Food: \$260

Total: \$3126.60

See attached
for details



Principles Of Engineering (POE)
 Scope and Sequence
 2013 Core Training Institute

Day	Estimated Time	Lesson	Learning Event	Deliverables	Due Date	Submission Type	
			All Readiness Training Modules in the LMS		Prior to first day of Core Training		
DAY 1	8:00 AM - 9:00 AM		Course Checklist				
		1.1	Review 1.1 Teacher Notes [DOC]				
		1.4	Introduction to Engineers Notebook [PPT] Design Process Overview [PPT]				
	9:00 AM - 10:30 AM		Careers in Engineering and Engineering Technology [PPT] Introduction to Careers Report				
		1.1	Simple Machine – Lever, Wheel and Axle, and Pulley [PPT] Simple Machines – Inclined Plane, Wedge, and Screw [PPT]				
			Vernier / LoggerPro - Introduction -				
	10:30 AM - 12:00 PM	1.1	Activity 1.1.1 Simple Machines Investigation VEX [DOC]	Complete in Course Binder (pages)	x	DAY 1	PDF Scan
	1:00 PM - 2:00 PM	1.1	Cont. Simple Machines Investigation VEX [DOC]				
	2:00 PM - 3:00 PM	1.1	Gears, Pulleys, and Sprockets [PPT]				
			Activity 1.1.3 Gears [DOC]	Complete in Course Binder (pages)	x	DAY 1	PDF Scan
			Activity 1.1.4 Pulley Drives and Sprockets [DOC]	Complete in Course Binder (pages)	x	DAY 2	PDF Scan & CQ
	3:00 PM - 5:00 PM	1.1	Project 1.1.6 Compound Machine Design VEX [DOC]	Complete in Engineering Notebook	x	DAY 3	PDF Scan & CQ
	Homework	1.1	Activity 1.1.2 Simple Machine Practice Problems [DOC]	Complete in Course Binder (pages)	x	DAY 3	PDF Scan
		1.1	Activity 1.1.5 Gear, Pulley Drives, and Sprockets Practice Problems	Complete in Course Binder (pages)	x	DAY 3	PDF Scan
1.3		Gather Materials for Project 1.3.4 Renewable Insulation					
2.1		Review Threads and Thread Notes [DOC]					
1.2		Read 1.2 Teacher Notes					
1.4		Read Lesson 1.4 Teacher Notes Review Introduction to Energy Sources [PPT]					

Day	Estimated Time	Lesson	Learning Event	Deliverables	Due Date	Submission Type	
DAY 2	8:00 AM - 9:30 AM	1.1	Compound Machine Design VEX [DOC]	Complete in Engineering Notebook		PDF Scan, CQ	
	9:30 AM - 10:00 AM	1.2	Introduction to Energy Sources [PPT] - Discuss content and best practices for implementation				
				Activity 1.2.2 Energy Distribution [DOC] - Review Only Discuss Possible Alternative - http://tcipg.mste.illinois.edu/			
	10:00 AM - 12:00 PM	1.2	Introduction to Electricity [PPT]				
				Activity 1.2.3 Electrical Circuits (physical) [DOC]	Complete in Course Binder (pages)	x	DAY 3 PDF Scan
	1:00 PM - 2:00 PM	1.2	Work, Energy and Power [PPT]				
				Activity 1.2.5 Mechanical System Efficiency [DOC]	Complete in Engineering Notebook	x	DAY 3 PDF Scan
		1.3	Review 1.3 Teacher Notes [DOC]				
	2:00 PM - 3:00 PM	1.3	Activity 1.3.1 Solar Hydrogen System [DOC]	Complete in Engineering Notebook	x	DAY 2 PDF Scan	
				Introduction to Thermodynamics [PPT]			
3:00 PM - 5:00 PM			Activity 1.3.4 Renewable Insulation [DOC]	Complete in Course Binder (pages)	x	DAY 2 PDF Scan & LoggerPro File	
			Introduction to Design Briefs [PPT] & Decision Matrix [PPT] Design Modification Chart [DOC]				
Homework		1.4	Problem 1.4.1 Renewable Electrical Energy Generation & Distribution [DOC]	Complete in Engineering Notebook	x	DAY 2 PDF Scan	
		2.1	Review Teacher Notes 2.1				
		1.2	Activity 1.2.4 Circuit Calculations	Complete in Course Binder (pages)	x	DAY 4 PDF Scan	
DAY 3	8:00 AM - 10:00 AM	2.1	Introduction to Statics [PPT]				
				Introduction to Centroids [PPT]			
				Activity 2.1.1 Centroids [DOC]	Complete in Course Binder (pages)	x	DAY 3 PDF Scan & CQ
	10:00 AM - 12:00 PM	2.1	Introduction to structural member properties [PPT]				
				Activity 2.1.2 Beam Deflection [DOC]	Complete in Course Binder (pages)	x	DAY 3 PDF Scan & CQ
				Lesson on Beam Deflection using MD Solids			
	1:00 PM - 2:30 PM	2.1	Free Body Diagrams [PPT]				
				Activity 2.1.3 Free Body Diagrams [DOC]	Complete in Engineering Notebook	x	DAY 4 PDF Scan & CQ
				Calculating Force Vectors [PPT]			
	2:30 PM - 5:00 PM			Activity 2.1.4 Calculating Force Vectors [DOC]	Complete in Course Binder (pages)	x	DAY 4 PDF Scan & CQ
		2.1	Calculating Moments [PPT]				
			Activity 2.1.5 Calculating Moments [DOC]				
			Calculating Truss Forces [PPT]				
Homework			Activity 2.1.6 Step by step truss system				
			Activity 2.1.7 Calculating Truss Forces	Complete in Engineering Notebook	x	Day 5 PDF Scan & CQ	
		2.2	Review Teacher Notes 2.2				
		2.2	Review Introduction to materials [PPT]				

Day	Estimated Time	Lesson	Learning Event	Deliverables	Due Date	Submission Type	
DAY 4	8:00 AM - 10:00 AM	2.1	Discussion on Truss Calculations from Activity 2.1.7				
	10:00 AM - 12:00 PM	2.1	Truss Design Project 2.1.8 [DOC]	Complete in Engineering Notebook	x	DAY 4	PDF Scan, Image & CQ
	1:00 PM - 2:00 PM	2.2	Introduction to materials [PPT]				
		2.2	Manufacturing Processes [PPT]				
				Activity 2.2.2 Manufacturing Processes [DOC] <i>Review only</i>			
	2:00 PM - 5:00 PM	2.3	Material Testing [PPT]				
			Tensile Testing Activity [DOC]	Activity 2.3.2 Tensile Testing [DOC]	x	Day 5	PDF Scan
Homework	3.1	Read 3.1 Teacher Notes					
	3.2	Read 3.2 Teacher Notes					
	2.4	Review 2.4 PPT Presentations					
DAY 5	8:00 AM - 9:00 AM	2.3	Activity 2.3.1 Stress/Strain Calculations [DOC]	Complete in Engineering Notebook	X	DAY 5	PDF Scan & CQ
	9:00 AM - 10:00 AM	2.4	Design Problem 2.4.1 [DOC] (West Point Bridge Designer)	Complete in Engineering Notebook	x	DAY 5	PDF Scan & CQ
	10:00 AM - 12:00 PM			Fluid Power Introduction [PPT]			
				Activity 3.2.1 Fluid Power Applications [DOC] Presentation Only			
		3.2	Pneumatic Power [PPT]				
	1:00 PM - 3:00 PM	3.2	Hydraulic Power [PPT]				
		3.2	Activity 3.2.4 Hydraulic Demonstration [DOC]				
3.2		Fluid Power Practice Problems [DOC]		Complete in Course Binder (pages)	x	DAY 6	PDF Scan
3:00 PM - 5:00 PM	3.1	Intro to VEX Robotics Platform and RobotC Software [PPT]					
			Build Testbed				
Homework							

Day	Estimated Time	Lesson	Learning Event	Deliverables	Due Date	Submission Type	
DAY 6	8:00 AM - 10:00 AM	3.1	Activity 3.1.1 Inputs and Outputs	Complete in Engineering Notebook	x	DAY 6	PDF Scan, RobotC File, CQ
			Program Design [PPT]				
			Activity 3.1.2 Basic Outputs Programing	Complete in Engineering Notebook	x	DAY 6	PDF Scan, RobotC File, CQ
	10:00 AM - 12:00 PM	3.1	Activity 3.1.3 Basic Inputs Programming	Complete in Engineering Notebook	x	DAY 6	PDF Scan, RobotC File, CQ
		3.1	While and If-Else Loops [PPT]				
			Activity 3.1.4 While and If-Else Loops	Complete in Engineering Notebook	x	DAY 6	PDF Scan, RobotC File, CQ
	1:00 PM - 3:00 PM	3.1	Variables and Functions [PPT]				
			Activity 3.1.5 Variables and Functions	Complete in Engineering Notebook	x	DAY 6	PDF Scan, RobotC File, CQ
	3:00 PM - 5:00 PM	3.1	Activity 3.1.6 Open and Closed Loop Systems	Complete in Engineering Notebook	x	DAY 6	PDF Scan, RobotC File, CQ
		3.1	Activity 3.1.7 Machine Control Design	Complete in Engineering Notebook	x	DAY 7	PDF Scan, RobotC File, CQ
	Homework						
DAY 7	8:00 AM - 12:00 PM	3.1	Activity 3.1.7 Machine Control Design				
	1:00 PM - 5:00 PM	3.3	Problem 3.3.1 Design Problem (Material Sorter)	Complete in Engineering Notebook	x	DAY 9	PDF Scan, RobotC File, & CQ
		Homework					
DAY 8	8:00 AM - 12:00 PM	3.3	Problem 3.3.1 Design Problem (Material Sorter)			DAY 9	
	1:00 PM - 5:00 PM	3.3	Problem 3.3.1 Design Problem (Material Sorter)			DAY 9	
		Homework		Complete Self Reflection [LMS] Kinematics [LMS]			

Day	Estimated Time	Lesson	Learning Event	Deliverables	Due Date	Submission Type
DAY 9	Self Reflection		Schedule and participate in an exit interview with an instructor	Self Reflection Review Interview	x	DAY 10
	8:00 AM - 10:00 AM	3.3	Present Material Sorters and clean up			
	10:00 AM - 12:00 PM	4.2	Introduce Activity 4.2.3 Ballistic Device Build Ballistic Device (VEX)	Complete in Engineering Notebook	x	DAY 10 PDF Scan & CQ
	1:00 PM - 2:00 PM	4.2	Build Ballistic Device (VEX)			
	2:00 PM - 5:00 PM	4.2	Construct Range Chart [XLS] Test and Collect Ballistic Data			
	Homework		Review Teacher Notes 4.1, 4.2			
DAY 10	8:00 AM - 10:00 AM	4.1 4.1.1 4.2	Probability [PPT], Statistics [PPT] Activity 4.1.1 Statistical Data [DOC] Activity 4.1.2 Candy Statistics [DOC] Project 4.2.1 Self-Propelled Vehicle	Complete in Course Binder (pages) Complete in Engineering Notebook Complete in Engineering Notebook	x	DAY 10 PDF Scan & CQ
	10:00 AM - 11:30 AM		Finish and hand in all work Complete Online Evaluations Complete Portfolio Checklist Course Debrief - Question and Answer Course Conclusion Checklist			
	Graduation		Attend graduation/closing ceremonies.			

PTE POE training costs breakdown

Room and board: \$327

Trip down and back from PCS: 476 miles at \$0.50 per mile: \$238

Trip to and from OIT: 4.3 miles at \$0.50 miles, assuming 2x per day for 12 days: \$51.60

Food: \$20 per day for 13 days: \$260

Total estimated cost: \$876.60

Klamath Falls KOA Campground Reservations

Reservation Details | Choose Campsite | **Enter Payment** | Review Order | Confirmation

Enter Your Payment Information

Review your reservation and enter your payment details.

Your Reservation Fees

MEMBERSHIP #	DATES	RATES	NIGHTS	PRICE
	7/7/2013 - 7/18/2013	\$27.00 / Night	12	\$327.00
Taxes				\$27.00
Value Kard Rewards Discount				-\$27.00
Estimated Total for Your Stay				US\$327.00
Reservation Deposit Amount Due				US\$27.25

Value Kard Rewards

MEMBERSHIP #

POSTAL CODE

Forgot Membership #?

Don't have a VKR membership?

Add a one-year membership to your order for \$24.00 and save 10% and more.

See all VKR benefits.

ADD A TAX-DEDUCTIBLE DONATION TO KOA CARE CAMPS

Help children who have cancer enjoy care-free time focusing on fun instead of on their illness.

You could have saved \$27.00 with Value Kard Rewards. Add a One-Year VKR Membership to My Order (\$24.00). Other charges for additional adults, children, and amenities may apply.

Your Reservation

Klamath Falls KOA
 3421 S.asta Way
 Klamath Falls, OR 97603
 800-592-8939

DATES
 Check In: 7/7/2013
 Check Out: 7/18/2013

NUMBER IN PARTY
 Adults 16+ 2
 Kids 6-17 0
 Kids 0-5 1, free

ACCOMMODATION TYPE
 Tent

CAMP SITE
 Tent Site: 113 Horseshoe Grass Site
 PAD

Lots of grass for our tenters.