

2008 Cost Estimates for PLTW Courses

MIDDLE SCHOOL COST ESTIMATE (BASED UPON AN EMPTY ROOM) – ITEM ANALYSIS IS NECESSARY TO DETERMINE BUDGET

Course	Computers (Includes Laptop for each instructor)	Equipment & Supplies	Furniture	Software (MS Office, MS Bookshelf, Adobe Photoshop)	Consumables	Grand Total
Computer Lab	\$21,762.00	\$7,827.67	\$8,539.30	\$1,700.55	\$630.95	\$40,460.47
Design & Modeling	\$1,344.00	\$326.00	\$0.00	\$0.00	\$0.00	\$1,670.00
Automation & Robotics	\$1,344.00	\$6,008.75	\$282.75	\$0.00	\$0.00	\$7,635.50
GTT Basic Total:	\$24,450.00	\$14,162.42	\$8,822.05	\$1,700.55	\$630.95	\$49,765.97
Magic of Electrons	\$1,344.00	\$3,044.05	\$0.00	\$0.00	\$153.82	\$4,541.87
Science of Technology	\$1,344.00	\$2,225.00	\$0.00	\$0.00	\$147.58	\$3,716.58
Flight & Space	\$1,344.00	\$2,938.46	\$0.00	\$0.00	\$775.28	\$5,057.74

- The above additional units may be selected and added to the GTT Basic program to expand the program offerings. This cost can be reduced if the school already has equipment and/or computers meeting or exceeding the PLTW specifications.
- Total cost for two middle school laboratories implementing GTT Basic with 26 student stations is approximately \$50,000.

HIGH SCHOOL COST ESTIMATE (BASED UPON AN EMPTY ROOM) – ITEM ANALYSIS IS NECESSARY TO DETERMINE BUDGET

Course	Computers (Includes Laptop for each instructor)	Equipment & Supplies	Furniture	Software (MS Office, MS Bookshelf, Adobe Photoshop)	Consumables	Grand Total
Computer Lab	\$16,740.00	\$7,827.67	\$8,539.30	\$1,313.30	\$630.95	\$35,051.22
FOUNDATION COURSES						
Intro to Eng. Design	\$1,344.00	\$669.45	\$0.00	\$0.00	\$1,104.65	\$3,118.10
Principles of Eng.	\$1,344.00	\$19,271.00	\$0.00	\$0.00	\$309.27	\$20,924.27
Digital Electronics	\$1,344.00	\$4,630.00	\$0.00	\$0.00	\$68.75	\$6,042.75
Foundation Course Total:	\$20,772.00	\$32,398.12	\$8,539.30	\$1,313.30	\$2,113.62	\$65,136.34
SPECIALIZATION COURSES						
Aerospace	\$1,344.00	\$13,683.61	\$0.00	\$0.00	\$642.90	\$15,670.51
Biotechnical	\$1,344.00	\$7,593.75	\$0.00	\$0.00	\$1,061.65	\$9,999.40
Civil / Architecture	\$1,344.00	\$3,064.87	\$0.00	\$0.00	\$749.22	\$5,158.09
Computer Integrated Manufacturing	\$1,344.00	\$35,884.34	\$1,779.75	\$0.00	\$1,980.95	\$40,989.04
Engineering Design & Development	\$1,344.00	\$390.00	\$0.00	\$2,168.25	\$18.50	\$3,920.75

- Per your School District Agreement, you are only required to implement one Specialization Course.
- High School costs are based on one lab with 20 stations. This cost can be reduced if: **1.** The school already has equipment and/or computers meeting or exceeding the PLTW specifications. **2.** The district implements courses over time.

Autodesk Software Options

Software required if running any of the following Project Lead The Way® courses:

Principles of Engineering (POE)
 Introduction to Engineering Design (IED)
 Gateway to Technology (GTT)
 Civil Engineering and Architecture (CEA)
 Engineering Design and Development (EDD)
 Aerospace Engineering (AE)
 Biotechnical Engineering (BE)

- a) You may use Autodesk products for classes *other than Project Lead The Way® classes*.
- b) You will have unlimited licenses with all of the products included in the Autodesk ADA package. High Schools may share their Autodesk Inventor Professional licenses with two (2) participating PLTW Middle Schools up to a total 50 seat limit (example 25/25; 30/20).
- c) Only High Schools in their first year of Project Lead The Way® implementation may elect to lease the Autodesk Inventor Professional for \$2,900. With this scenario, you will have 100 licenses of Autodesk Inventor Professional *that may only be used in conjunction with Project Lead The Way® courses*. After the first year of implementation, schools must use the ADA Package option.
- d) Middle Schools without a participating district High School may choose the Autodesk Inventor Professional option for \$1,000 per year.

Autodesk Software for High Schools	DW or SS	Number of Seats	Unit Cost
Autodesk ADA Package Includes: Autodesk Inventor Professional Autodesk Revit AutoCAD Autodesk VIZ Civil 3D Autodesk Architectural Desktop <i>Please see sections a and b above.</i>	SS	Unlimited	\$3,995.00
Autodesk Inventor Professional Only <i>ONLY First Year Project Lead The Way® High Schools may choose this option. Please see section c above.</i>	SS	100	\$2,900.00

Autodesk Software for Middle Schools	DW or SS	Number of Seats	Unit Cost
Autodesk Inventor Professional Only <i>ONLY Project Lead The Way® Middle Schools without a participating district High School may choose this option. Please see section d above. Middle Schools with a participating district High School please see sections a and b above.</i>	SS	100	\$1,000.00

The above Autodesk software can **ONLY** be ordered through your regional Autodesk reseller.

Additional Software Options

**1. Software required if running any of the following Project Lead The Way® courses:
Digital Electronics (DE)**

Software	DW or SS	Number of Seats	Unit Cost
MultiSIM	SS	25	\$650.00
Ultiboard (Optional) -Printed Circuit Board Layout software	SS	25	\$600.00

**2. Software required if running any of the following Project Lead The Way® courses:
Computer Integrated Manufacturing (CIM)**

Software	DW or SS	Number of Seats	Unit Cost
CIM Bundle Includes:			\$2,100.00
Eshed Robotic Robocell	DW	30	
CNC Motion	DW	30	
Edge CAM	DW	25	
Additional Seats:			
Eshed Robotic Robocell	DW	30	\$800.00
CNC Motion	DW	30	\$800.00
Edge CAM	DW	25	\$500.00
Open-CIM (Optional)	DW	30	\$800.00

Professional Development Cost Estimates

- Laptop computer for each teacher (as per the School District Agreement and included in the course costs on page 1)
 - \$1,344.00
- Summer Training Institute
 - Registration depending on the institute attended
 - \$1,800.00 - \$2,400.00
 - Room and Board depending on the institute attended
 - \$800.00 - \$1,600.00