



Purdue / Boeing PLM Certificate Program

Pilot Study



Overview

- Certificate Program in Product Lifecycle Management with a 3-course sequence
Partnership between:
 - Purdue University's Department of Computer Graphics Technology
 - The Boeing Company Learning Training and Development (LTD)



Program Description

- The program focuses on three areas that are critical for Boeing's "go forward" strategy using PLM toolsets –
 - 3D modeling,
 - relational design, and
 - manufacturing process planning.



Course 1: Introduction to 3D CAD Design in PLM Environments

- The goal of this course is for students to understand the methodologies and application of virtual 3D CAD product design for use into functioning PLM environments.



Course 2: The Methodologies and Application of Relational Design in PLM Environments

- The goal of this course is for students to understand the methodologies and application of relational 3D CAD product design within the confines of a Product Data Management (PDM) system in PLM environments.



Course 3: The Methodologies and Application of Virtual Manufacturing in PLM Environments

- The goal of this course is for students to understand the methodologies and application of virtual manufacturing in functional PLM environments.



Program Structure

- Boeing pays for the cost of the courses for their employees
- Each course was 10-weeks in length
- 1 lecture/demo and 1 laboratory session each week
- Students register through Purdue's office of Continuing Education & Conferences
- Certificate awarded upon completion of all three courses



Course Delivery Technology

- Adobe Connect: lectures
- Blackboard Vista: course management
- HP Remote Graphics Server: access to course software for laboratory sessions
 - Allows user interactivity with reasonable performance
 - Allows Purdue to host all licensing and software infrastructure
 - Aids in maintaining a secure environment



Course & Student Assessment Strategy

- Attendance at virtual lectures
- Required virtual discussion threads
- Laboratory assignments
- Pre/post tests
- Possible group project in Course 2



Going Forward: Pilot 2

- Curriculum is set (mostly)
- Testing/deploying distance delivery technology
- Licensing agreement reached with Dassault (for now)
- Aiming for 2 cohorts to start Course 1 in January