

AIDC in Health Care/Retail/ Telecom and Manufacturing

All aspects of improving productivity in the Health Care, Retail, Manufacturing and Telecommunications industries will be covered within this course. HIBCC and GS1 and UDI (unique device identification) standards will also be covered. How materials are tracked throughout the supply chain to the hospital, retailers and manufacture.



AIDC in Distribution



Learn how RFID and Bar Code technologies are used to control materials throughout the entire supply chain. Students will undertake a total system design including hardware selection, placement and cost justification.

AIDC in Asset Management

RFID is the ideal technology for tracking all assets. The advances in passive tags have increased reading range in metal environments. Students will undertake designing an Asset Management software package. They then will be able to test this system for 45 days on their own assets. The DOD and FDA require all assets over \$5,000 to be identified with a UID/UDI (Unique Identification/Unique Device Identification). This course covers all of the details in order to implement a UID/UDI system.



Statement of Non-Discrimination: Pueblo Community College is an equal opportunity educational institution and does not discriminate on the basis of age, race, religion, color, national origin, sex, or disability in its activities, programs, or employment practices as required by Title VI, Title IX, Section 504, Age Discrimination Act, and Title II of the ADA. The College has designated the Director of Human Resources as its Affirmative Action Officer with the responsibility to coordinate its civil rights compliance activities and grievance procedures. For information, contact the Director of Human Resources, 900 W. Orman Avenue, Pueblo, CO 81004 telephone and TDD (719) 549-3220; or the Office for Civil Rights, U.S. Department of Education, Region VIII, Federal Office Building, 1244 North Speer Boulevard, Suite 310, Denver, CO 80204, telephone (303) 844-3417.

ADA Notice: Reasonable accommodations will be provided upon request for persons with disabilities. To make a request, please notify the PCC Disability Resources Team at 719-549-3449 or Disability.Resources@pueblocc.edu at least four working days before the event.

Instructors:



Robert Rylander



Robert Fox

Adjunct College Instructors with **40 years combined experience** in the AIDC industry.

Robert Rylander has worked with over 250 companies designing AIDC systems.

Robert Fox serves on all major AIDC ISO standard committees providing major insight on the latest AIDC standards under development.

Detailed Instructor Bios:

- Visit us at www.aidc-education.com

Course Options:

- Five Days 9:00 AM to 5:00 PM
- Minimum of 10 students is required.

Contact us for more information:

- **Robert Rylander** – barcoderwr@aol.com
- **Robert Fox** – rfox738@yahoo.com

Pre-Requisites:

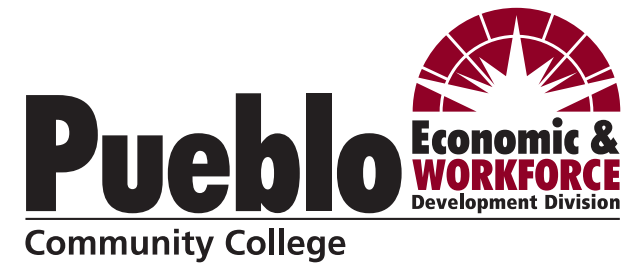
- **BSc Computer Science or Electronics or equivalent**
- **BSc Logistics or equivalent**

Course Syllabus

- The syllabus is available online at <http://www.aidc-education.com/syllabus.html>

Tuition: \$1,495.00

As part of the course you will receive a work book and a self paced AIDC DVD training course. This DVD contains all of the lectures and labs on video. This is a \$900 value and can be used to aid the instructor in the training process. The course can also be added to your schools online Blackboard system.



AIDC Instructor Academy

Automatic Identification Data Collection

4.0 Continuing Education Units



Instructors are Members of AIDC-100



The **Automatic Identification and Data Capture Instructor Academy (AIDCIA)** is a week long educational event that allows college and university professors as well as technical and business professionals to learn about AIDC technologies and their applications. Academy instructors have **over 40 years combined experience in the AIDC industry** consulting and training a large variety of industries (healthcare, manufacturing, logistics, merchandising, engineering, and the Department of Defense).

AIDCIA participants leave with an increased understanding of and familiarity with the latest AIDC technologies. They also leave with confidence in their use of state of the art equipment. As a result, they are able to apply their newfound knowledge in classrooms or business environments.

COURSE FEATURES:

- 30 Progressive Learning Modules
- 5 System Design Workshops
- 4 Software Design Labs
- 6 AIDC Hands-On Equipment Labs
- 7 Self-Focused Learning Exercises
- 3 Interim Exams and 1 Final Exam

Day One

- Segment 101 Bar Code
- General Introduction to AIDC Technologies
- Biometric Technologies
- Bar Code Standards
- Bar Codes 1D/2D/Matrix/Mobile
- Printing Techniques
- Printing Design Software Lab
- Verification 1D/2D/Matrix
- Verification Lab

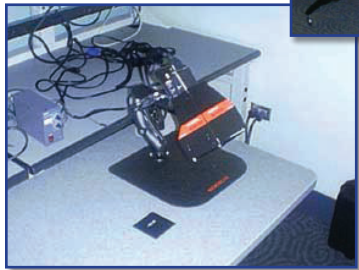


Day Two

- Scanning and Data Collection Terminals
- Scanning Lab
- Understanding UID and UDI
- (Unique Identification/Unique Device ID)
- UID/UDI Design Software Lab
- DOD UID Registry
- Direct Part Marking Software Lab
- Potential Industrial Application
- Case Studies
- Interim Exam



Direct Part Marking Lab



Bar Code Verification Lab

Students will design UID/UDI data plates using UID software. They will then get to print, verify and read the UID/UDI data.

Day Three

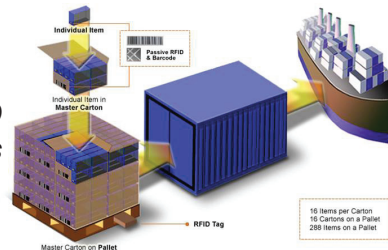
- Segment 201 RFID
- RFID Standards
- Introduction to Radio Frequency Identification
- Physics of RFID
- Reading RFID Tags Lab
- EPC-EPC Information Sys - EPCIS & GDSN
- Understanding EPC and ISO Structures
- Designing an EPC tag Workshop
- RFID Printing
- Smart RFID Label Printing Lab
- RFID Readers
- Setting up an RFID Lab
- Spectrum Analyzer Video Lab
- RFID Strategic Plan Development
- RFID Applications and Case Studies
- Interim Exam



RFID Conveyor Systems

Students will learn all the aspects of designing RFID systems in their environment. The course covers a verity of design concepts for Retail, inventory, manufacturing, Gas and Oil, Mining, etc.

UID/RFID Nested Process



Day Four

- Segment 301 AIDC System Design
- Getting Started with AIDC Implementation
- Host Connectivity
- Cost Justification
- Cost Justification workshop (calculator)
- Inventory Management
- Warehousing and Distribution
- System Design Workshop
- Shop Floor (Production)
- System Design Workshops
- Retail/Telecom/Health Care
- System Design Workshop
- Document tracking
- Asset Management
- System Design Workshop
- Interim Exam

Day Five

- System Design Workshop
- Warehouse Inventory Tracking
- Final Exam
- Present Certificates

Students will form teams (committees) and perform a total design of an inventory system. This will utilize all that the students have learned over the past four days. This includes hardware selection of an RFID or Bar Code system, placement of hardware on preselected floor layouts, host connectivity and a cost saving analysis. Student will then conduct a formal presentation on their design.

System Design Workshops

