



Training Course Catalog

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Rev. 7



Training Course Catalog

Rev. 7

REVISION HISTORY			
Rev No.	Date	Reason for Update	Comment
A	1/25/12	Initial Version	
1	1/25/13	Added content, updated formatting, and tightened layout.	
2	05/02/13	Edited content, updated formatting, and tightened layout.	
3	07/21/14	Updated content, front matter.	
4	06/03/15	Edited logos, copy & front matter, added GEN3 Printer content.	
5	06/23/15	Edited IACET logo, front matter, CEU descriptions, UBA SU graphic.	
6	08/09/16	Edited front matter, added DBV-400/DBV-500 descriptions and graphics, edited Section 3 content, updated links.	
7	04/17/17	Edited front matter, added GEN5™ and PromoNet® PNA™ description and graphic, edited Sections 2 & 3 content, updated links.	

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Training Course Catalog

Introduction

Section 1

1-1 About JCM Technical Training

JCM prides itself on providing excellent customer service and support, including an extensive training curriculum.

Training courses are developed by JCM's professional team of knowledgeable and experienced technical trainers to meet the specific needs of our customers.

This catalog lists the various JCM product training courses available. Products include gaming, commercial validators and JCM systems. For products not listed in this catalog, contact JCM Technical Training for information about availability of training.

JCM product training is presented in several different formats to meet the needs of our customers. JCM training uses a "Repair Process" flow, which provides attending students a methodology for maintaining JCM products. Training can be tailored to the student skill level or the needs of the customer. Training programs start at a basic product overview level, up to a high level certification program.

Training Schedule

All training is scheduled in advance and offered at JCM facilities, regional locations and various colleges. Refer to the JCM website www.jcmglobal.com to see a calendar of upcoming training sessions.



Note: Check the JCM website often, as training sessions are added throughout the year to meet the needs of our customers.

Registration

Registration is required for all scheduled training events. JCM's Technical Training is conducted with a significant amount of "hands on" exposure, enhancing the training experience. To facilitate this training approach, training sessions are generally limited to 10 students per session.

Only students who have preregistered will be admitted to the training session.

To register for all training events via email, contact JCM at training@jcmglobal.com or call 800 683-7248 and ask for Technical Training.

Cancellation Policy

If you are registered for a training session and need to cancel, notify JCM Technical Training by phone or e-mail. Due to the high demand for JCM Product Training, there is usually a "wait list" for each training session. Any training slots that become available due to cancellations will be filled in the order in which the request was received.

Cost of Training

Training is offered based on location and schedule/availability, as shown in Table 1-1.

Table 1-1 Training Fee Schedule

Location	One Day	Two Day
JCM Facilities*	No Charge	No Charge
Customer Location†	\$1500.00	\$2750.00
ICB Subscriber	\$1300.00	\$2500.00

*JCM Facilities include colleges and JCM-sponsored Regional Training Events. Attendees are responsible for travel arrangements to and from all locations.

†If a JCM Instructor is required to travel to a Customer Location, the Customer will be responsible for the Instructor's travel and living expenses for the duration of the trip.

Contact JCM Technical Training or your local JCM Sales Representative for additional information.

1-2 Minimum Requirements for JCM Training Locations

An important aspect of a successful training event is an environment conducive to learning. Therefore, minimum requirements for any outside facility are:

- Location suitable for the number of students and the duration of the event (1 to 8 hours)
- Sturdy tables for JCM equipment
- Access to AC power at all workstations
- Sufficient lighting
- PC projector screen
- PC projector (preferred, but not required)

JCM will provide all training materials, along with any additional equipment necessary.

1-3 Certificate of Completion

A Certificate of Completion is awarded to attendees who fully participate in the training, complete the required exercises, and demonstrate comprehension of the material.

1-4 Certification Training

Courses indicated as “Certified” give the student an in-depth review of the JCM product. Upon completion of the course, a Certification Test is given. On successful completion of the certification test, the student will be recognized as Certified for that product. Due to product changes, Certification is valid for one year.

For certification, the student should have at least 90 days experience working on the JCM product prior to attempting the Certification Course.

Contact JCM Technical Training for more information.

IACET Recognized

JCM Technical Training is recognized by the International Association for Continuing Education and Training (IACET). The stringent requirements for compliance with IACET standards ensure that the training provided is professional, thorough and will meet your needs.

CEU Credit varies based on the JCM Product. Refer to Course descriptions for the amount of CEU credit available for each course. One CEU credit equals 10 hours of in-class training.



“JCM American Corp. is accredited by the International Association for Continuing Education and Training (IACET).

JCM American Corp. complies with the ANSI/IACET Standard, which is recognized internationally as a standard of excellence in institutional practices.

As a result of this accreditation, JCM American Corp. is authorized to issue the IACET CEU.”

Disclaimer

Course curriculum, pricing, and class availability are subject to change without notice. Contact JCM Technical Training for the latest details regarding JCM products and/or systems training.

Training Course Catalog

Validator Course Listings

Section 2

2-1 DBV®-30x Training Course

Learning Outcomes:

The Learner will be able to successfully maintain the DBV-30x Series Validator. On event completion, the attendee will be able to troubleshoot the DBV-30x, perform all tests and diagnostics, and be able to implement and perform a Preventive Maintenance routine. Additionally, the student will be able to update software and calibrate the DBV-30x, and be able to explain the various software applications that support the DBV-30x, and how to apply each application.

Topics include:

- DBV-30x and RC-10 models and usage
- Preventive Maintenance
- Communication Protocols
- Repair Process flow
- Acceptance Testing of the DBV-30x
- Diagnostic Testing
- Error Code analysis
- Calibration
- Updating Software
- Use of DBV-30x software applications
- Implementation of the Verto™ interface
- Firmware Downloading via BlueWave™

Provided Materials:

- JCM Training Overview
DBV-30x Banknote Validator
- OptiPay System Quick Reference Guide
DBV-30x Banknote Validator

Required Test Equipment:

- MDB simulator, with cables
- DBV-30x UAC Kit
- Calibration reference paper
 - KS-059 (White)
 - KS-060/KS-061 (Black)

Required Applications:

- JCM Downloader
- Cab 300 Calibration Program

CEU Credits:

- JCM American Corp. is authorized by IACET to offer 0.70 CEUs for this program.

Class Size:

- Limited to 10 students, to promote “hands-on” training and full participation of attendees.

Course Length:

- 8 hours



Bottle Mask DBV

Snack Mask DBV

DBV-30x Series Validators

2-2 DBV®-400 Training Course

Learning Outcomes:

The Learner will be able to successfully maintain the DBV-400 Series Validator. On event completion, the attendee will be able to troubleshoot the DBV-400, perform all tests and diagnostics, and be able to implement and perform a Preventive Maintenance routine. Additionally, the student will be able to update software and calibrate the DBV-400, and be able to explain the various software applications that support the DBV-400, and how to apply each application.

Topics include:

- DBV-400 Model Identification
- Preventive Maintenance
- Communications Protocols
- Repair Process flow
- Error Code analysis
- Use of the JCM Tool Suite application
 - Updating Software
 - Calibration
 - Statistics
 - Acceptance Testing
 - Diagnostic Testing
- DIP Switch Testing

Provided Materials:

- JCM Training Overview DBV-400 Banknote Validator
- DBV-400 Quick Reference Guide

Required Test Equipment:

- Calibration Reference Paper KS-095A

Required Applications:

- JCM Tool Suite
- Basic Driver: ID003

CEU Credits:

- JCM American Corp. is authorized by IACET to offer 0.40 CEUs for this program.

Class Size:

- Limited to 10 students, to promote “hands-on” training and full participation of attendees.

Course Length:

- 4 hours



DBV-400 Banknote Validator Unit

2-3 DBV®-500 Training Course

Learning Outcomes:

The Learner will be able to successfully maintain the DBV-500 Series Validator. On event completion, the attendee will be able to troubleshoot the DBV-500, perform all tests and diagnostics, and be able to implement and perform a Preventive Maintenance routine. Additionally, the student will be able to update software and calibrate the DBV-500, and be able to explain the various software applications that support the DBV-500, and how to apply each application.

Topics include:

- DBV-500 Model Identification
- Preventive Maintenance
- Communication Protocols
- Repair Process flow
- Error Code analysis
- Use of the JCM Tool Suite application
 - Updating Software
 - Calibration
 - Statistics
 - Acceptance Testing
 - Diagnostic Testing
- DIP Switch Testing

Provided Materials:

- JCM Training Overview DBV-500 Banknote Validator
- DBV-500 Quick Reference Guide

Required Test Equipment:

- Calibration Paper KS-091

Required Applications:

- JCM Tool Suite
- Basic Driver: ID003

CEU Credits:

- JCM American Corp. is authorized by IACET to offer 0.40 CEUs for this program.

Class Size:

- Limited to 10 students, to promote “hands-on” training and full participation of attendees.

Course Length:

- 4 hours



DBV-500 Banknote Validator Unit

2-4 iVIZION® Training Course

Learning Outcomes:

The Learner will be able to successfully maintain the iVIZION Series Validator. On event completion, the attendee will be able to troubleshoot the iVIZION, perform all tests and diagnostics, and be able to implement and perform a Preventive Maintenance routine. Additionally, the student will be able to update the software on the iVIZION, and be able to explain the various software applications supporting the iVIZION, and how to apply each application.

Topics include:

- Preventive Maintenance
- Repair Process flow
- Error Code analysis
- Implementation of the Intelligent Cash Box® System (RFID)
- Use of the JCM Tool Suite application
 - Updating Software
 - Calibration
 - Statistics
 - Acceptance Testing of the iVIZION
 - Diagnostic Testing
- Use of the Basic Drivers application for testing
- Use of the Universal Acceptor Connector (UAC) communications device
- Use of the BlueWave Download Tool

Course Length:

- 3 hours



iVIZION Series Validator Unit

Provided Materials:

- JCM Training Overview iVIZION Banknote Acceptor
- iVIZION Quick Reference Guide
- iVIZION Preventive Maintenance Guide

Required Test Equipment:

- PS75-002 Power Supply (or equivalent)
- Laptop PC with JCM applications
- Universal Acceptor Connector (UAC) communications device
- Calibration Paper KS-089

Required Applications:

- JCM Tool Suite
- Basic Driver: ID003 or ID024

CEU Credits:

- JCM American Corp. is authorized by IACET to offer 0.30 CEUs for this program.

Class Size:

- Limited to 10 students, to promote “hands-on” training and full participation of attendees.

2-5 Taiko™ (PUB 7/11) Training Course

Learning Outcomes:

The Learner will be able to successfully maintain the Taiko Series Validator. On event completion, the attendee will be able to identify the PUB-7 and PUB-11 models, troubleshoot the Taiko, perform all tests and diagnostics, and implement and perform a Preventive Maintenance routine. Additionally, the student will be able to update software and calibrate the Taiko, and be able to explain the various software applications supporting the Taiko, and how to apply each application.

Topics include:

- Preventive Maintenance
- Repair Process flow
- Error Code analysis
- Updating Software
- Calibrating
- Acceptance Testing of the Taiko
- Diagnostic Testing
- Software Cloning
- Use of the Basic Driver application
- Use of the Universal Acceptor Connector (UAC) communications device
- Use of the BlueWave Download Tool



Taiko PUB-11 Validator Unit

Provided Materials:

- JCM Training Overview Taiko Banknote Validator (PUB 7-11)

Required Test Equipment:

- VM-30 interface adapter or Universal Acceptor Connector (UAC) communications device
- Calibration paper requirements:
 - Calibration reference paper (KS-070)

Required Applications:

- JCM Download application
- Basic Driver: ID-003

CEU Credits:

- JCM American Corp. does not offer CEU credits for this program.

Class Size:

- Limited to 10 students, to promote “hands-on” training and full participation of attendees.

Course Length:

- 2 hours

2-6 Transaction Based Validator (TBV™) Training Course

Learning Outcomes:

The Learner will be able to successfully maintain the Transaction Based Validator (TBV™) Series unit. On event completion, the attendee will be able to identify the TBV models, troubleshoot the TBV, perform all tests and diagnostics, and be able to implement and perform a Preventive Maintenance routine. Additionally, the student will be able to update software and calibrate the TBV, and be able to explain the various software applications supporting the TBV, and how to apply each application.

Topics Include:

- Preventive Maintenance
- Repair Process flow
- Error Code analysis
- Use of the JCM Tool Suite application
 - Calibration
 - Updating Software
 - Acceptance Testing of the TBV
 - Diagnostic Testing
- Use of the Basic Driver application
- Use of the Universal Acceptor Connector (UAC) communications device
- Use of the BlueWave Download Tool

Provided Materials:

- TBV Training Overview

Required Test Equipment:

- Universal Acceptor Connector (UAC) communications device with 24VDC Power Supply
- Calibration reference paper (TBV-101):
 - Calibration reference paper, white (KS-076/KS-077)
 - Calibration reference paper, white UV (KS-078/KS-079)

Required Applications:

- JCM Tool Suite
- JCM Basic Drivers

CEU Credits:

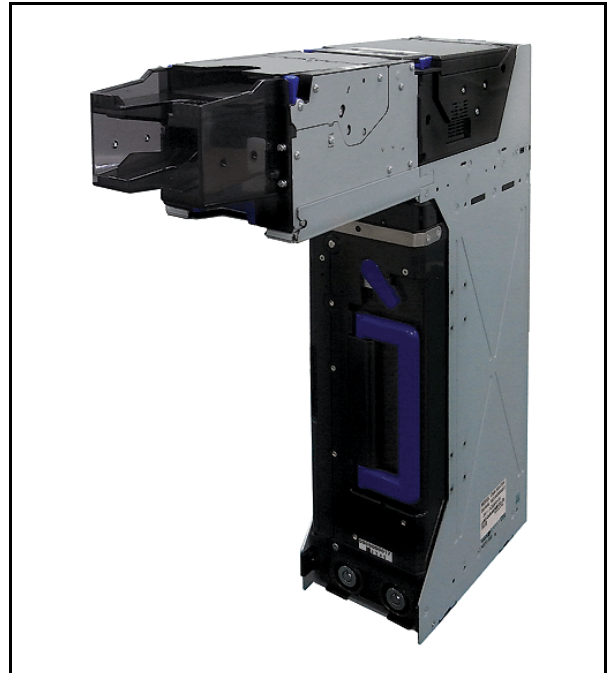
- JCM American Corp. is authorized by IACET to offer 0.40 CEUs for this program.

Class Size:

- Limited to 10 students, to promote “hands-on” training and full participation of attendees.

Course Length:

- 4 hours



TBV Unit

2-7 UBA®-1x and -2x Series Validators Training Course

Learning Outcomes:

The Learner will be able to successfully maintain the UBA-1x and -2x Series Validators. On event completion, the attendee will be able to identify various UBA models, troubleshoot, perform tests and diagnostics, and be able to implement and perform routine Preventive Maintenance and calibration. Additionally, the student will be able to update software and calibrate the UBA Series Validator, be able to explain the various software applications supporting the UBA, and be able to apply the application.

Topics include:

- UBA Overview - identification of models
- Preventive Maintenance
- Repair Process flow
- Error Code analysis
- Use of the JCM Tool Suite application
 - Updating Software
 - Calibration
- Use of the BlueWave Download Tool
- UBA Acceptance Testing
- Diagnostic Testing
- Use of the Basic Driver applications
- Operation of the Sentry-1 Bezel
- Implementing the Intelligent Cash Box (ICB) system

Provided Materials:

- JCM Training Overview UBA 10/11/12/24/25
- UBA Quick Reference Guide
- 2.5mm Hex Nut Driver

Required Test Equipment:

- PS75-002 Power Supply or Universal Acceptor Connector (UAC) communications device
- Mag tool kit, containing:
 - Calibration reference paper, white (KS-062)
 - Calibration reference paper, black (KS-063)
 - Calibration reference paper, UV (KS-064)

Required Applications:

- JCM Tool Suite
- JCM Basic Drivers: ID-003 or ID-024

CEU Credits:

- JCM American Corp. is authorized by IACET to offer 0.40 CEUs for this program.

Class Size:

- Limited to 10 students, to promote “hands-on” training and full participation of attendees.

Course Length:

- 4 hours



UBA Series Validators

UBA SU Unit

UBA SS Unit



Sentry-1 Bezel

2-8 VEGA™ and VEGA-RC™ Training Course

Learning Outcomes:

The Learner will be able to successfully maintain the VEGA Series Validator and VEGA-RC Series Recycler. On event completion, the attendee will be able to identify the VEGA models, troubleshoot and perform all tests and diagnostics, and be able to implement and perform a Preventive Maintenance routine. Additionally, the student will be able to explain the various software applications supporting the VEGA and how to apply each application, and be able to update software and calibrate VEGA units.

Topics include:

- Preventive Maintenance
- Repair Process flow
- Error Code analysis
- Updating Software (PC/BlueWave)
- Calibration
- Acceptance Testing
- Diagnostic Testing

Provided Materials:

- JCM Training Overview VEGA/VEGA-RC Banknote Validator
- VEGA Quick Reference Guide

Required Test Equipment:

- Universal Acceptor Connector (UAC) communications device
- Power Supply and interface box
- Calibration reference paper:
 - Calibration reference paper, white (KS-325)
 - Calibration reference paper, black (KS-326)

Required Applications:

- UBA Downloader (2.10 specified)
- VEGA_Adjustment.exe
- VEGA_Adjustment_Zero.exe

CEU Credits:

- JCM American Corp. is authorized by IACET to offer 0.40 CEUs for this program.

Class Size:

- Limited to 10 students, to promote “hands-on” training and full participation of attendees.

Course Length:

- 4 hours



VEGA Series Validator Unit



VEGA-RC Unit

2-9 iPRO-RC™ Training Course

Learning Outcomes:

The Learner will be able to successfully maintain the iPRO-RC Series Validator. On event completion, the attendee will be able to troubleshoot the iPRO-RC, perform all tests and diagnostics, and be able to implement and perform a Preventive Maintenance routine. Additionally, the student will be able to explain the various software applications supporting the iPRO-RC, and how to apply each application.

Topics include:

- iPRO-RC Overview
- Preventive Maintenance
- Repair Process flow
- Error Code analysis
- Use of the JCM Tool Suite application
 - Updating Software (PC/BlueWave)
 - Calibration
 - Acceptance Testing
 - Diagnostic Testing
- Use of the Basic Drivers application
- Use of the Universal Acceptor Connector (UAC) communications device

Provided Materials:

- iPRO-RC Training Overview
- iPRO-RC Quick Reference Manual

Required Test Equipment:

- Laptop PC with JCM applications
- Universal Acceptor Connector (UAC) communications device with 24VDC Power Supply
- Calibration reference paper:
 - Calibration reference paper, white (KS-087)

Required Applications:

- JCM Tool Suite
- Basic Driver: ID-003

CEU Credits:

- JCM American Corp. is authorized by IACET to offer 0.50 CEUs for this program.

Class Size:

- Limited to 10 students, to promote “hands-on” training and full participation of attendees.

Course Length:

- 5 hours



iPRO-RC Unit

2-10 iPRO™ Training Course

Learning Outcomes:

The Learner will be able to successfully maintain the iPRO Series Validator. On event completion, the attendee will be able to troubleshoot the iPRO, perform all tests and diagnostics, and be able to implement and perform a Preventive Maintenance routine. Additionally, the student will be able to explain the various software applications supporting the iPRO and how to apply each application, and will be able to update the software on the iPRO unit.

Topics Include:

- Repair Process flow
- Preventive Maintenance
- Error Code analysis
- Implementing the Intelligent Cash Box system
- Use of the JCM Tool Suite application
 - Updating Software
 - Calibration
 - Acceptance Testing of the iPRO
 - Diagnostic Testing
- Use of the Basic Drivers application
- Use of the Universal Acceptor Connector (UAC) communications device

Provided Materials:

- JCM Training Overview iPRO Banknote Acceptor
- iPRO Quick Reference Manual

Required Test Equipment:

- PS75-002 Power Supply (or equivalent)
- Laptop PC with JCM applications
- Universal Acceptor Connector (UAC)

Required Applications:

- JCM Tool Suite
- Basic Driver: ID-003 or ID-024

CEU Credits:

- JCM American Corp. is authorized by IACET to offer 0.30 CEUs for this program.

Class Size:

- Limited to 10 students, to promote “hands-on” training and full participation of attendees.

Course Length:

- 3 hours



iPRO Unit

2-11 GEN2U™ and GEN5™ Printers Training Course

Learning Outcomes:

The Learner will be able to successfully maintain the GEN2U and GEN5 Printers. On event completion, the attendee will be able to identify the GEN2U and GEN5 printer models, troubleshoot the printers, perform all tests and diagnostics, and be able to implement and perform a Preventive Maintenance routine. Additionally, the student will be able to update firmware on the GEN2U and GEN5 Printers, and be able to explain the various software applications that support the GEN2U and GEN5 Printers, and how to apply each application.

Topics Include:

- Printer testing
- Sensor locations
- LED Error Code Analysis
- Preventive Maintenance
- Firmware Updating
- Use of the JCM Printer Basic Driver Software

Provided Materials:

- User's Guide FLDFU Utility
- Printer Cleaning Guide
- GEN2U Quick Reference

Required Test Equipment:

- 24VDC Power Supply
- PC
- Harness for each Printer

Required Applications:

- FLDFU Downloader
- JCM Printer Basic Driver

CEU Credits:

- JCM American Corp. is authorized by IACET to offer 0.30 CEUs for this program.

Class Size:

- Limited to 10 students, to promote "hands-on" training and full participation of attendees.

Course Length:

- 3.0 hours



GEN2U Printer



GEN5 Printer

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Training Course Catalog

Systems Course Listings

Section 3

3-1 Intelligent Cash Box System Training Course

Learning Outcomes:

The Learner will be able to successfully maintain and use the Intelligent Cash Box (ICB®) system. On event completion, the attendee will be able to troubleshoot the ICB system, perform all tests and diagnostics, and be able to implement and perform a Preventive Maintenance routine.



Note: Because several casino functions are affected by ICB system implementation, training times and levels of training may vary for each functional group.

Soft Count Topics include:

- MDM
 - Setting Cash Boxes
 - Initializing Cash Boxes
 - Using the MDM PC Application
 - Maintaining the Docking Station

Slot Technician Topics include:

- Installing and initializing the ICB hardware on a UBA, iPRO or iVIZION Validator
- Troubleshooting an ICB system on the Validator
- Using the Set Ticket Application and Printer Status Application
- Using Multi Download Module (MDM) for Initializing Cash Boxes
- Using Web Reports for Performance data

Accounting and Administration Topics include:

- Accessing Web Reports for data on Performance Reporting and Revenue

Provided Materials:

- ICB Web Reports Manual
- MDM Software Installation Guide
- ICB Training Overview Guide
- Read/Write Tool Training Overview Guide

Required Test Equipment:

- Docking Station
- UBA, iPRO, iVIZION with active ICB

Required Applications:

- JCM ICB® Asset Ticket Generator
- MDM
- Web Reports
- Basic Driver: ID-003

- Docking Station Administrator

Class Size:

- Limited to 10 students, to promote “hands-on” training and full participation of attendees.

CEU Credits:

- CEU credits are not offered for this course.

Course Length:

- Varies by module, dependent upon the skill level of the students. Training time varies per session (usually 1 to 2 hours).



**ICB Docking Station
Read/Write Tool
CouponXpress™ Printer**

3-2 PromoNet Marketing Studio Training Course

Learning Outcomes:

The Learner will be able to successfully navigate the PromoNet Marketing Studio application. On event completion, the attendee will be able to create and/or edit Promotions, manage Promotion Campaigns and evaluate the Campaign results.



Note: Because several casino functions are affected by the PromoNet System implementation, training times and levels of training may vary for each functional group.

Topics include:

- PromoNet components and network structure
- Marketing Studio Application
 - Creating a Campaign
 - Redemption Locations
 - Target Groups
 - Promotion Profiles
 - Promotion Design
 - Campaign Management
- On-Line Monitor

Provided Materials:

- PromoNet 2.0 Operator Instruction Manual
- Creating Campaigns Quick Reference

Required Test Equipment:

- PC with PromoNet Applications
- Peripheral Network Adapter (PNA™)

Required Applications:

- PromoNet® 2.0 Marketing Studio Application
- PromoNet Online Monitor

Class Size:

- Limited to 10 students, to promote “hands-on” training and full participation of attendees.

CEU Credits:

- CEU credits are not offered for this course.

Course Length:

- Varies by the scope of the PromoNet installation and the needs of the attendees.



Peripheral Network Adapter
(PNA v1™)



Peripheral Network Adapter
(PNA v2™)

