NTMA

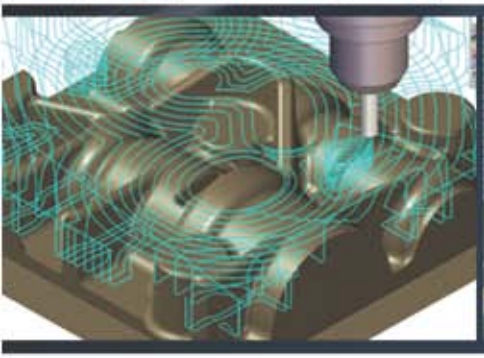
TRAINING CENTERS OF SOUTHERN CALIFORNIA

Machinist Training Since 1968

Celebrating Over 40 Years of Training

Call Us at 1-800-962-6862

Advanced Machinist Training Program



CNC Machining • Advanced CNC Machining
Mastercam • Advanced Mastercam
Inspection Training

2012 CATALOG

JULY 2012

Norwalk (Main) • Ontario (Satellite)

Welcome to NTMA Training Centers!

You, our most valued customer, are entering a training program that will allow you to develop skills and knowledge in the manufacturing industry that will serve you throughout your lifetime. The training is demanding and requires you to focus on the study and application of machining methods and techniques. The NTMA Training Centers are committed to help you succeed in your studies from start to completion. Your progress is monitored throughout the program to ensure that you accomplish this goal.

You are expected to learn and apply the lessons being taught and to demonstrate these skills. One of the strengths of the training program offered at the NTMA Training Centers is the hands-on application of the lessons that are taught. You are prepared to operate the machine equipment being used in machine shops and the manufacturing industries. Instructors at the NTMA Training Centers are trained machinists who have received or are receiving vocational teaching credentials and are ready to train you in the skills needed to succeed in the manufacturing industry. The key to your success is your desire to learn and work in this fascinating field.

The lessons you learn and the knowledge you gain at the NTMA Training Centers helps assure you a place in the forefront of this manufacturing effort.

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Program Information

The learning process depends on your participation. You must be committed to attending every class. The training for this program is very intense. Each lesson builds on the next lesson to give you the foundation needed to learn the machinist profession. Your desire to attend classes and your commitment to learning are the first steps to good work habits that will assure you success in the machining industry.

Your attendance is carefully monitored. If you miss attending school for any reason you must notify the school immediately. ETP Regulations are very strict with regard to absences. Please contact an Advanced Training Representative for details regarding absences.

The NTMA Training Centers have the best classrooms, computer laboratories, the finest equipment, both conventional and Computer Numerical Control, of any machinist training school in the nation. You, the student are the final and most important part of the training process. You alone control whether you will succeed or fail these Machinist Training programs.

This catalog is designed to assist you with your decision in choosing a training program. After reviewing the catalog, we encourage you to visit us and experience first hand the benefits described. Established in 1968, the NTMA Training Centers of Southern California assist people just like you to succeed!

California statute requires that a student who successfully completes a program of study, be awarded an appropriate certificate verifying that fact. Program completion records will be made available within two weeks after program completion and verification of 90 days continuous employment to allow adequate time for grade and final test compilation, analysis and preparation of certificate.

The NTMA Training Centers are non public, private institutions.

All information and content of this school catalog is current and correct and is so certified as true by:

Michael Kerwin

Michael Kerwin, President

Institutional History

Since 1968, the NTMA Training Centers of Southern California have prepared and furthered the skills of nearly 75,000 men and women for careers in the tooling, machining, and manufacturing industry. The Los Angeles Chapter National Tooling and Machining Association (LA/NTMA) Training Center was founded as a Trust in Boyle Heights, County of Los Angeles, California, in 1968. In 1982, the LA/NTMA Training Center moved to its current location in Norwalk. To respond to the increasing demand for skilled machinists in the Inland Empire, an additional satellite facility was opened in Ontario in 1999. In 1999, to better reflect the geographic reach of the Training Centers, the name was changed to the NTMA Training Centers of Southern California (NTMA Training Centers).

Since December 1985, NTMA Training Centers of Southern California has been approved to operate by the Bureau for Private Postsecondary Education (BPPE) in compliance with state standards as set forth in the Ed. code. BPPE currently approves the NTMA Norwalk Training Center location as a Main Campus and a satellite Ontario site. The institution was granted accreditation by the Accrediting Commission of Career Schools & Colleges (ACCSC) in 2001 for the Machinist Training Program.

NTMA Training Centers of Southern California has not had a pending petition in bankruptcy; is not operating as a debtor in possession; has not filed a petition within the preceding five years; and has not had a petition in bankruptcy filed against it within the preceding five years that resulted in reorganization under Chapter 11 of the United States Bankruptcy Code.

NTMA Training Centers of Southern California has been approved to operate by the former Bureau for Private Postsecondary and Vocation Education. However, NTMA's application for reapproval to operate has not been reviewed by the Bureau. NTMA's application to the Bureau was received prior to January 1, 2006 and therefore NTMA is granted approval to operate until December 2012.

Mission/Vision Statement

Mission The NTMA Training Centers will provide Machining Education and Training by:

- Preparing qualified candidates for entry level machining jobs.
- Providing advanced machinist training courses to current industry employees
- Promoting professional work ethics and values to all students

Vision

Supply the Southern California Machining Industry with a Healthy, Well-Trained Workforce while Elevating the Image of the Industry.

Accreditations, Approvals and Memberships

- Licensed to operate by the Bureau for Private Postsecondary Education (BPPE)
- Designated for referrals by city and county, retraining, rehabilitation and vocational guidance agencies

Schedule of Sessions

Classes are held on Saturdays.

Norwalk Hours of Instruction		
Saturday	8:00 a.m. to	4:30 p.m.
Ontario Hours of Instruction		
Saturday	8:00 a.m. to	4:30 p.m.
Administrative Hours		
Monday through Friday	8:00 a.m. to	4:00 p.m.

Non-Discrimination

NTMA Training Centers do not discriminate on the basis of race, color, ancestry, national origin, sex, age, religious creed or marital status in any policies, procedures, or practices. Students who have questions or concerns about this policy should contact their Campus Director.

Safety First

Safety and accident prevention procedures are mandated at all NTMA Training Centers classes. The Federal Occupational Safety and Health Act (OSHA), state safety requirements, insurance safety requirements, and years of experience in the machining, tooling and manufacturing industry form the basis for these guidelines.

Descriptions of Facilities

The main school for the NTMA Training Centers is in Los Angeles County, California. This center occupies 14,000 square feet in a two-story building located in the City of Norwalk near the 91, 5 and 605 freeways. The space consists of three classrooms, a computer laboratory, a workshop, a student break area and administrative offices. The student break area is equipped with a pay phone, vending machines and a refrigerator.

The Norwalk campus is equipped with necessary machining equipment and materials essential for training machinists. Major equipment in the shop and labs includes: computer workstations, vertical mills, lathes, surface grinders, drill presses, CNC machines, turning centers, and wire EDM machines. Classrooms are equipped with overhead projectors, televisions and VCRs.

The satellite Ontario campus is located in San Bernardino County, California. This satellite campus occupies 22,000 square feet in a two-story building located in the City of Ontario near the 60, 10 and 15 freeways. The space for this campus consists of four classrooms, two computer laboratories, faculty area, a workshop, a student break area,

administrative offices and three conference rooms. The student break area is equipped with pay phones, vending machines and a refrigerator. The Ontario satellite campus is equipped with necessary machining equipment and materials essential for training machinists.

Major equipment in the shop and labs includes: computer workstations, vertical mills, lathes, surface grinders, drill presses, CNC simulators, CNC machines, turning centers and wire EDM machines. The classrooms are equipped with overhead projectors, televisions and VCRs.

Conduct

Students are expected to conduct themselves in a manner appropriate to a professional work environment. Violations of the school's student conduct policy include, but are not limited to, the following: destroying or damaging school property; use of any illegal drugs or alcohol while on school property or attending school while under the influence of illegal drugs or alcohol; cheating on a school examination; exhibiting violence, insubordination, or inappropriate language or behavior toward any school staff or another student. All students are subject to random drug testing. Cell phones and/or other electronic devices are not allowed during class/shop time. Computer usage is for school related work only. Anyone on any site other than school related may be terminated from the school. Violations of the school's student conduct policy may result in immediate termination from the program. A Machinist Training student placed on probation for any reason remains on probation until the end of that module, when the Campus Director reviews their case. At that time the student may be released from probation, remain on probation for next module subject to review at the end of that period, or be terminated or repeat module.

Student Records

The Registrar's office maintains academic records of all course work completed at the school. Records are maintained on campus for five years.

Annual Security Report

The school publishes the policies and procedures for reporting crimes, as well as the types of crimes that have been committed on or near the campus, in the NTMA Annual Security Report. This publication is distributed annually to all students and employees and may be requested at any time from a school administrator.

Drug and Alcohol Abuse Policy

NTMA Training Centers support and endorse the Federal Drug-Free Workplace Act of 1988 and the Drug-Free Schools and Communities Act amendments of 1989.

The unlawful manufacture, distribution, dispensation, possession or use of a controlled substance or abuse of alcohol by a student on NTMA's property or as part of any NTMA activity is prohibited.

Any student of NTMA found to be abusing alcohol or using, possessing, manufacturing or distributing controlled substances in violation of the law on NTMA property or at NTMA events shall be subject to disciplinary action. Students who violate this policy may be subject to suspension and/or expulsion from NTMA.

Copyright Infringement Policy

NTMA Training Centers require all students and faculty to comply with applicable federal, state, and local laws, including copyright laws.

Copyright infringement is the act of exercising, without permission or legal authority. These rights include the right to reproduce or distribute copyrighted work. In the file-sharing programs, context, downloading or uploading substantial parts of a copyrighted work without legal authority constitute infringement.

Violators of this policy will also be subject to penalties including administrative sanction and disciplinary action.

For more information, please see the Web site of the U.S. Copyright Office at www.copyright.gov and www.copyright.gov/help/faq.

Disability Services

NTMA Training Centers promotes and ensures equal access to College programs and services, and activities for qualified students with disabilities. Due to the nature of the program offered at NTMA Training Centers, limitations are evaluated through the admission process. Students with disabilities are encouraged to contact the admissions department prior to enrollment. The admissions representative will review individual students with disabilities and ensure a strategic learning experience while maintaining the academic standards and mission of the Centers.

All NTMA Training Centers are handicapped accessible facilities.

School Performance Fact Sheet

All prospective students receive a School Performance Fact Sheet prior to enrolling.

Graduate retention percentage was determined by taking the amount of students graduated and divided by the amount of students available to graduate multiplied by 100 to find percentage. Students are determined unavailable to graduate when they are included in any of the following situations:

- Incarcerated
- Called to active duty in the Military
- Death occurring within the enrollment period

Graduate placement rate was determined by taking the amount of graduates employed divided by the amount of graduates available to work multiplied by 100 to find percentage. Students are determined unavailable to work when they are included in any of the following situations:

- Incarcerated
- Called to active duty in the Military
- Death occurring within the enrollment period
- Continuing education at an Accredited School

Graduate placement wage was determined by taking the amount of graduates employed and tallying their wage into the appropriate wage point. Yearly salaries are determined by taking the hourly amount multiplied by 40 hours a week (full time placement) by 52 weeks to equal a yearly amount.

Students may obtain a list of employment positions determined to be within the field for which a student received education and training for the calculation of job placement rates from either the Campus Director or the Placement Department.

Students may obtain information used to substantiate the salary disclosure from either the Campus Director or the Placement Department.

This fact sheet is filed with the Bureau for Private Postsecondary Education. Regardless of any information you may have relating to completion rates, placement rates, or starting salaries, this fact sheet contains information as calculated pursuant to State Law.

Any questions a student may have regarding this fact sheet that have not been satisfactorily answered by the institution may be directed to the Bureau for Private Postsecondary Education Physical address 2535 Capital Oaks Drive, Suite 400 Sacramento California, 95883 Mailing address P.O. Box 980818 W Sacramento, CA 95798-0818, Toll free Number: 1(888) 370-7589, www.bppe.ca.gov, Telephone Number: (916) 431-6959, Fax Number: (916) 263-1897.

Library and Resource Center

NTMA Training Centers has a Library and Resource Center available at both the Norwalk (main) and Ontario (satellite) campuses. The Library and Resource Center contains reference books and videos pertinent to student learning and the Manufacturing Industry.

The Library and Resource Center is available at each campus with student access per the hours listed below.

Hours of operation:

8:00 a.m. – 10:30 p.m.	Monday - Friday	(Ontario)
7:30 a.m. – 10:30 p.m.	Monday - Friday	(Norwalk)

School Calendar

Classes are conducted year-round. Starting dates are based on the availability of students for each program. (Refer to current class schedule.)

The NTMA Training Centers observes nine holidays each year on which no classes will be conducted. Subject to scheduling requirements, those holidays may include:

With Advanced Training Classes being held on Saturdays, the Saturdays immediately preceding or following the scheduled holiday (if holiday lands on a Monday or Friday) will be considered the Advanced Training Class holiday. For example, Monday January 16th 2012 is the scheduled holiday, so Advanced Training Classes holiday would be Saturday January 14th 2012.

Dec. 21, 2011 – Jan. 2, 2012		Winter Break
Tuesday	January 3, 2012	Classes Resume
Monday	January 16, 2012	Martin Luther King Jr. Day
Monday	February 20, 2012	President's Day
Friday	May 18, 2012	In-Service Day
Monday	May 28, 2012	Memorial Day
Wednesday	July 4, 2012	Independence Day
Monday	September 3, 2012	Labor Day
Friday	November 2, 2012	In-Service Day
Thursday	November 22, 2012	Thanksgiving
Friday	November 23, 2012	Day after Thanksgiving
Dec. 18, 2012 – Jan. 4, 2013		Winter Break
Monday	January 7, 2013	Classes Resume

The current Holiday Schedule may be requested at any time from a school administrator.

Complaint Procedure

Students are encouraged, at all times, to verbally communicate their concerns to members of the faculty and administration for amicable solutions. Unresolved concerns will be referred to the Campus Director. The Campus Director will verify that the student has made a verbal attempt to resolve the grievance with the instructor or other appropriate staff member. The decision of the Campus Director will be communicated immediately. If the decision is unacceptable to the student, the student must, within 24 hours of the hearing, send copies of all documents and a cover letter explaining why the decision is unacceptable to the President of NTMA. All complaints will be resolved within 30 days from the receipt date of the incident report.

Student Complaint and Grievance Procedure

Students are encouraged, at all times, to communicate their concerns to members of the faculty and administration. If a situation arises in which a student has a complaint or grievance regarding grades, instruction or other topics related to their program of study, the following procedure is in effect:

- Make an appointment to discuss the matter with your instructor, if applicable. If not resolved...
- Make an appointment to discuss the matter with the lead Instructor. If not resolved...
- Make an appointment to discuss the matter with the Campus Director. If a student is unable to resolve a problem informally, a written grievance may be submitted to the Campus Director.
- The written grievance must be submitted to the Campus Director. An Incident Report form is available for students use and may be obtained from the Campus Director. An Incident Report is not required in submitting the written grievance.
- The Campus Director will verify that the student has made an attempt to resolve the concern informally with the Instructor or lead Instructor.
- The Campus Director will call a grievance committee hearing within 24 hours of receipt of the written grievance. The committee will be composed of the Campus Director, the Lead Instructor, and any individuals whose participation is warranted by the circumstances of the particular concern.
- All persons involved with the incident must be present at the time of the hearing. Evidence will be presented by the student and then by all other parties involved. Minutes will be taken.
- The committee will immediately meet in the absence of those involved to review the evidence and vote on a decision. The decision of the committee will be communicated immediately.
- A student or any member of the public may file a complaint about this institution with the Bureau for Private Postsecondary Education by calling toll-free (888) 370-7589 or by completing a complaint form, which can be obtained on the bureau's internet web site at www.bppe.ca.gov.
- As a prospective student, you are encouraged to review this catalog prior to signing an enrollment agreement. You are also encouraged to review the School Performance Fact Sheet, which must be provided to you prior to signing an enrollment agreement.
- Any questions a student may have regarding this catalog that may not have been answered by the institution satisfactorily may be directed to the Bureau listed below:

Unresolved issues/complaints may be directed to:

Department of Consumer Affairs
Bureau for Private Postsecondary Education Physical Address:
2535 Capitol Oaks drive, Suite 400
Sacramento, CA 95833

Mailing Address P.O. Box 980818 W Sacramento, CA. 95798-0818

Toll free Number: 1(888)370-7589 Telephone Number (916)431-6959

You may also visit the Bureau's website at www.bppe.ca.gov

Administration & Faculty

President	Michael Kerwin
Campus Director, Norwalk	Gina Marinello
Campus Director, Ontario	Lilly Ford
Director of Advanced Training	Marcie Correa

Instructor Qualifications

Luis Carlos Andrade: He has been a Machine Shop Manager and Safety Manager for 11 years. He has attended Mt. San Antonio College with an emphasis in Manufacturing Technology. Currently, he instructs advanced training courses at NTMA Training Center, Ontario.

Grant Bickham is a second generation machinist following in his fathers footsteps. He moved from Great Britain in 1980 after his father took a job at Allied Mechanical. After graduating from high school he went to work at Merlin Engineering where his father was manager, from there moving on to Calcor Space Facility training as a Tool and Cutter Grinder. When the Aerospace industry started to decline he moved to Scripto Tokai Corporation making precision carbide tooling used in the manufacture of pen points and branched out into Sinker EDM work making carbide Dies for coldheaders. When the company started to downsize he went to work for Mag Instruments working in the Tool Room as a Tool Maker and eventually ended up setting up and programming Fadal CNC Mills. After 9 years at Mag he moved on to Swiss Screw Machine Shop making Precision Carbide Tooling. In 2011 he attended the NTMA Training Center to gain experience in CNC machines, and while attending he took a job at Allied Mechanical where his Father had started out working in the US, furthering his skills on the CNC's running a Horizontal Boring Mill. Eventually the opportunity to become an Instructor at NTMA teaching advanced conventional Machining in MOD 3 opened up and Grant took the opportunity as a way to give back to the industry that has given him a great career for the last 27 years.

Peter Brozek earned his MBA in finance from the University of La Verne and has over 30 years of experience working in the manufacturing field. He started his formal education in manufacturing at Don Bosco Technical institute earning an associate of science degree before going onto Cal Poly Pomona as an engineering major. Later he would design and manufacture high angle rescue equipment with his brother taking CNC Mastercam courses at the NTMA to upgrade his skill set. Seeking a career change he would join the Underground Power division for the city of Pasadena before accepting his current position as the General Manager for West Coast Custom fabricators. As a part time instructor at the NTMA Peter stated he is extremely happy to be working with the students and sharing his knowledge of the machining industry with them.

Mike Buechler, Lead Instructor was born and raised in Southern California and began his machining career shortly after high school. After working as a cold header operator he attended NTMA Costa-Mesa in 1992 to further his career. Mike has worked in the machining field since then and has made flight critical parts for Air Force one, life-saving medical devices and everything in between. Before joining NTMA Norwalk as lead instructor, he developed a top fuel cylinder head for Don Schumacher Racing in Brownsburg Indiana. Mike brings a wealth of knowledge and enthusiasm to his new goal of teaching the next generation of manufacturers.

Steve Bui: A full time credentialed instructor, employed as a professional in machining and manufacturing industries since 1976. Began teaching Machine Technology courses in machining, set-up, operation and programming since 1985. He attended Fullerton College, Cal. State University Long Beach and took courses in UCLA Extension program.

Kent Canady: An instructor with many years of experience in machining and quality control. Kent provides students with a unique experience to work with an instructor who has a background in inspection and quality control. Students are taught inspection techniques and operation of Coordinate Measuring Machines (CMM).

Ebenezer Castellanos: Completed his studies (1980-1984) at the Higher Institute of Education for Vocational and Professional Training in Havana, Cuba; earning the Diploma of Licentiate in Education with Major in Machine Construction in July, 1984. These studies are considered equivalent in level and purpose to the Bachelor of Science in Vocational and Technical Education, awarded by regional accredited colleges and universities in the United States. Since September 1984 to July 1996 has been working as Professor of Technology and Machinery Tools and turnery instructor and machinist instructor. Ben has been working in the machinery industry since 1996. He also worked as a Part-time instructor at Cerritos College in the CNC Machine Tool Technology since Fall of 2001. Ben possesses a Vocational Education Teaching Credential.

Tin Chit: Tin earned his Bachelor of Science Degree in Mathematics from Yangon University of Myanmar. Tin has over 12 years experience teaching high school math at a private school in Myanmar. He attended Los Angeles Trade-Technical College, received certificate in CNC programming and Gibbs Cam programming. He completed advanced MasterCam (CAD-CAM) programming courses with perfect attendance from NTMA Training Centers. He has experience in operating, setting up, programming, and editing CNC mills, lathes and conventional machines.

Victor De La Torre Has over 20 years experience in manufacturing and has worked in the industry as a project engineer for a large company that produces custom presses in Bell Gardens, CA. Victor has also worked for Waltco Engineering, a large aerospace company and has been teaching for nearly 13 years. He teaches courses in the usage of machine tools, software, and CNC programming. Victor has an AS degree from Cerritos College, a single subject teaching credential from CSULB.

Carlos J. Deras: He has spent the last 28 years in the Aerospace Industries; his jobs have included CNC Machinist, CNC Programmer, as well as a Lean Manufacturing, and Continuous Process Improvement Specialist. As a programmer, his duties and responsibilities are to write, edit, and debug CNC Programs per customer drawings. He is also responsible to train operators to set up and operate CNC equipment, as well as to develop new process to establish better setups and operations. He has also learned to work with many different materials over the years, these include: Titanium, Inconel, Monel, and Super Alloys. Carlos instructs Advanced CNC courses at the NTMA Training Center, Ontario.

Bernell Dunn: A full time clear credentialed instructor with 27 years teaching experience, 9 years professional experience as a machinist and tool and die maker. Graduated from Belize Technical College majoring in Mechanical and Electrical Engineering. Earned an Associate of Arts Degree from National Technical Schools in Machine Operations and a full time designated teaching credential from Cal State University, Long Beach.

James A. Fall II: A full-time credentialed instructor (life-time) with over 20 years experience in the machine tool industry. Taught Machine Technology at the college level for nine years. Earned a BA from Azusa Pacific University and currently instructing Module classes at the NTMA Training Center, Ontario.

Steven Gajda: Steve completed a five-year Machinist, Tool & Die, Business, and Technology program. He has worked as a machinist in the Machine Tool Technology Industry since 1968, working in all areas. Steve was part owner of a machine shop There he worked in all aspects of the sheet metal and CNC fabrication service; sales, repairs of machine tools, parts, carbide cutting tools, and power tools.

Sergio Garcia: Sergio has over 15 years of experience in the manufacturing industry which includes: Manual and CNC Aerospace machining, tool and die, and Mastercam programming. He attended Santa Ana College for machining and CNC programming practice. Currently Sergio instructs advance training courses at NTMA Training Center, Ontario.

Victor M. Gomez Started as a machine operator in 1976, decided to further his knowledge and took a 780 hour course offered through CET in Anaheim in 1979, has worked in the manufacturing industry (commercial, military, aerospace, medical, auto, etc) for over 25 years. Former 2004 NTMA Graduate (beginning and advanced Mastercam Programming), Victor has worked for the Anaheim Union High School District for the past 8 years and decided to share his knowledge by working at NTMA Training Centers.

Richard T. Harris is a Quality control Professional with over 25 years experience in Los Angeles, employed at various aerospace companies including: Boeing Rocketdyne, McDonnell Douglas and Hughes Helicopters. Richard currently utilizes expert coordinating measuring machine programming skills at Wilshire Precision Products, suppliers for Honeywell and Moog. He is a source delegate for General Dynamics and source inspection liaison at Sierra-Harrison. Additionally, he has a medical device background at Mini-Med Educational, certificate in Statistical Process Control, ISO 9001 certificate auditor and an associate's degree in General Education from Glendale Community College.

James Hazelton: James has worked in the manufacturing industry for the past 10 years. He Began his career at EJ Components, starting out on CNC lathes and mills where he was responsible for setting up and operating and later as a trainer and part time CNC Programmer. He currently works for Upland Fab, a manufacturing company specializing in plastics and composites, where he is a Senior Programmer and Operations Manager. James instructs Introduction to Mastercam at NTMA Training Center, Ontario.

Daniel Herrera: In September 2006 after 4 years with the USMC, Daniel took a CNC machine operator position with Upland FAb out of Ontario, Ca. Since that time, Daniel has quickly moved up in machining industry becoming very knowledgeable with Mastercam programming software. After leaving Upland Fab, Daniel did a short run with Compart out of Shenzhen, China. There Mr. Herrera worked to improve their programming methods moving them to a more productive way of machining parts thus improving there profits. Now, Daniel is back with Upland Fab working as a programmer and involved with sales.

Richard Jaime: Graduate of NTMA Training Centers of Southern California and has been employed as a CNC Operator at LISI Aerospace. Currently Richard instructs module training courses at NTMA Training Center, Ontario.

Amer Khafagi: Since 1990 to 1999, Amer worked as a Tool and Die Maker working with progressive headers, 4-years prototyping parts for Bristol Industries, CNC Setup Machinist and Programmer, and managed the CNC Department for LE Tipfer Co. for 6 years. Amer has an AS Degree in Machine Technology & CNC from Los Angeles Trade Technical College. He has full time teaching credential from California State Long Beach cleared until 2011, and a certificate of Authorization for Service(in Teaching) from the county of Los Angeles.In addition, Amer has over 25 certificates in the machining field from NTMA, Haas Automation, Machinery Sales, FADAL Engineering, Quality Plus Enterprises Technical Institute, and Society of Manufacturing Engineers. Amer has been a teacher at NTMA since 1999 and taught ETP classes for 4 years, Title IV for 2 years, as well as Basic CNC and Advanced CNC at NTMA of Norwalk, North Hollywood and Ontario. Amer has worked extensively on course curriculum development and lesson planning for Conventional as well as CNC Machining

Rick Koukal: Rick has been involved in the manufacturing industry since 1978. He has worked 19 years in a family owned job shop, producing manufacturing equipment in dividing heads used to test angular accuracy in the electronics, military, and aerospace industries. He has also spent 10 years working for a gear manufacturer operating large lathes, milling, and hobbing machines. Rick also spent 10 years cranking handles on manual mills and lathes while moving up to CNC programming and operations, focusing on programming and operating: Mazak Milling Center's; using M2, M+, Mazatrol, and M-32 controls. Currently, Rick is teaching Module 1 at the NTMA Training Center, Ontario.

Michael W. Kuhn Mike completed a formal apprenticeship as a Tool & Die Mold Maker in 1985. The next twelve years he specialized in programming and operating CNC machining centers, EDM's, and laser systems at a variety of manufacturing companies. Mike then went to work at a few sales organizations and machine tool manufacturers providing technical support as well as training personnel on new equipment. Currently Mike us teaching Advanced Training Courses at NTMA in the Norwalk campus.

Paul Lovelace: Paul started in the manufacturing industry in 1983 and spent the first 19 years working in several positions for a major machine tool distributor. Fifteen of those years were as an Applications Engineer, teaching machine programming and operations, troubleshooting user problems and teaching CAM programming. For 5 years, Paul taught part time at Rio Hondo College: teaching Shop Math, Basic CNC Programming and Advanced CNC Programming. Since 2003, Paul has been an independent Applications Engineer and is also a partner in a company providing phone based technical support for manufacturing companies across the country. Paul currently instructs at NTMA Training Center, Ontario.

Eduardo McLean: Eduardo completed a Six-year Machinist Apprenticeship program in 1973 and has an AA degree in General Education, a Tool Design Certificate, a BS in Applied Studies Management, a BA as a Spanish Teacher, a Manufacturing Engineer Certificate, a BPPVE Instructors Certification by the state of California and an Instructors credential by the state of California. He has worked as a machinist in the Machine Tool Technology Industry since 1973. Ed has worked in all areas of the Machining Industry (Manufacturing Engineer, Production, prototype, tooling, molds & dies, programming, R&D, Technical Translation & supervision). In addition, has been with NTMA Training Centers Norwalk Campus since January 2001.

Jim Messina: Jim has over 28 years experience as a journeyman general machinist and toolmaker in the aerospace industry. He attended Indiana University majoring in Audio-Visual Communications. He graduated as a four-year machinist apprentice from Bethlehem Steel Corporation in Northern Indiana and worked for Northrop/Grumman in Hawthorne, CA as a prototype machinist on several classified projects. Jim is a full time credentialed instructor. Currently, Jim instructs module training courses at NTMA Training Center, Ontario.

Manny Monarrez: A credentialed instructor with over 28 years experience in the machining industry. Attended Mt. San Antonio College, Orange Coast College and Rancho Santiago College.

Ricardo Montoya: Ricardo has over ten years of experience working in all areas of the shop. He is experienced on set-up, programming, and editing on mills, lathes and CNC machines. He has taken CNC classes, Basic MasterCam, and Advanced Mastercam at NTMA and has experience with inspection, CMM and blueprint reading. He has been teaching at NTMA since 2006.

Hussein Nasser: Hussein is a credentialed instructor teaching MasterCam. Education includes BS degree in manufacturing Engineering from Cal Poly Pomona and an AS degree in Drafting Production Design from LA Harbor College. Hussein works in the advanced woodworking industry machining wood products and furniture components.

Michael Nguyen: Michael is a full-time credential instructor. He has experience in operation, setting up, programming and editing CNC mills, lathes, boring machines and conventional machines. Michael earned a BS in Business Administration from Van Khoa University. He completed advanced machining courses with perfect attendance from NTMA Training Centers of Southern California, Inland Empire location and Wilshire Computer College. Currently, Michael instructs module training courses at NTMA Training Center, Ontario.

Kurt Preisendanz, Lead Instructor Kurt started his 33 years as a general machinist in 1974. His apprenticeship started in his father's machine shop in Pasadena, California. In his 4 years of apprenticeship, Kurt was involved with machining and processing for the aerospace industry. For the next 5 years(1978-1983), Kurt worked in various job shops as a general machinist in the San Fernando and Santa Clarita Valley's where his duties include conventional machining, CNC machining and programming, fixture design and building, and troubleshooting. From 1983-1990, Kurt became a contract machinist for a company directly involved with Space Shuttle Main Engines (Rockwell International, Rocketdyne). This contract position eventually led to the start of Kurt's own Machining and Design Company called Kersey Manufacturing. After 4 years, Kurt was asked to become a General Manager for a major aerospace and defense contractor, which he accepted. From that point on, Kurt has been involved as a Senior Machinist/GM in the manufacturing industry. Kurt currently instructs Module 2 at the NTMA Training Center, Ontario.

Stuart Preston: Stuart entered the Industry in 1959 while serving a 5 years Apprenticeship in England as a Journeyman Tool and Die Maker. During this time he attended Kingston, Hull Technical College. After working in England in the aircraft industry for over 16 years, he then moved to California and specialized for many years in Deep Draw-High Speed Transfer Press Tooling, Design, Troubleshooting, and Gauge Making. Stuart has also spent close to 15 years as a working shop Supervisor. While teaching at NTMA for the last 4 years, he successfully completed both Level 1 and Level 2 California Vocational Education Credentials. Currently, Stuart is teaching Module 3 at the NTMA Training Center, Ontario.

Jim "JR" Ragaisis (Director of Training): JR completed a 5 year apprenticeship program as a Journeyman Tool & Die Maker in 1989 from Wisconsin. He graduated with an Associate Degree in Manufacturing Productivity and most recently completed the Kennametal Certified Metal-cutting Professional Program. Desires for professional growth moved him to Scottsdale, Arizona, as an EDM Programmer/Operator, where he advanced the engineering department by designing and programming wire, sinker, machining centers, and turning centers. He has been a college instructor for the past 10 years and a consultant with industry in the area of CAD/CAM/CNC technology.

Vincent "Dee" Ridenour Dee was first introduced to the metalworking world in the high school where he majored in industrial arts. He took his desire to Bowling Green State University in Ohio where he majored in Product Design. Dee reentered the machining community through the California retraining program later receiving his training through the NTMA taking a position as a Tool & Die Maker. Returning to the NTMA as an apprentice and earning his journeyman certificate, Dee returned to the NTMA for advanced CNC and CAD (Mastercam) training. He then took a position as a shop manager and programmer in the motorcycle industry for the next 4 years. Dee is currently teaching module 3 at the NTMA Training Center, Ontario facility and owns a contractual programming business.

Cesar A. Rivera Experienced in aeronautic engineering through the community college of the air force. He is an accomplished machinist in conventional machines. Experienced in CNC programming, set-up of CNC mill, lathe, and punch die. Has knowledge in abrasive machining technologies and currently works as a manufacturing engineer, CNC programmer, and machinist. He also has knowledge in CAD/CAM software to program complex geometry of aircraft parts.

Oscar Rodriguez, 18 years of combined experience in the Manufacturing Technology Field as a CNC and Manual Machinist, Maintenance Mechanic, CNC Mill Department Lead, Toolmaker, CNC Programmer, and Production Manager. I Have worked in the Aerospace, Medical Industry, and Commercial Industry. As a machinist I have worked on a variety of large and small CNC and manual equipment. I have worked on Mastercam, Catia, Solidworks, Verisurf and Vericut for NC Programming and Tooling/ Fixture Design. I completed the Manufacturing Technology Program at Mt. SAC Community College and a Bachelors of Science in Organization Management From the University of La Verne.

Phil Shoup has been in the machinist industry for 42 years. He has done portable feed machining and conventional shop machining. Phil served as an apprentice at the Minder Chain and Gear Co. Phil has also worked at Allis Chalmers and Smith International. At the present time, Phil is a substitute at the Ontario Campus of NTMA.

Vince Sibiglia A credentialed instructor with over 31 years experience in the machining industry has been teaching machining for over 19 years. He's earned two Associate of Arts degrees in machine tool technology and CNC programming from Cerritos Community College and teaches Basic and Advanced CNC.

Dan Smith has been in manufacturing since 1984 first working as a center less grinder and as a thread roller working for Duestch Metal Components. He moved on to work on the tooling and fastener side of center less grinding. In 1995 Mr. Smith attended NTMA Norwalk as he started to work in a shop running a wire EDM machine. He continued running EDM and various other machine tools making molds, tool and die, R&D, aerospace and medical devices. He joined NTMA as an instructor in 2009 where he now teaches and runs a tool and die company in Santa Fe Springs. With close to 30 years in manufacturing Mr. Smith has hands on experience with all aspects of our curriculum and is always a student favorite due to his generous and kind personality.

Joseph Taglialavore Completed a five-year Machinist Apprenticeship program in 1973 has an Associate of Arts degree in Machine Tool Technology, a BPPVE Instructors Certificate by the State of California, a full-time Instructor's credential by the State of California and Supervision and Coordination credential by the State of California. He has worked as a machinist in the Machine Tool Technology Industry since 1968. He has worked in all areas of the Machining Industry (Production, prototype, tooling, molds & dies, programming, R&D, & supervision). In addition, has been with the NTMA Training Centers Norwalk Campus since January 1995 working as an Instructor, Sr. Instructor & Lead Instructor.

John Templeton: John has worked in a machine shop environment since 1996. Completed a 4 year, machinist Apprenticeship program in England and graduated from Darlington College of Technology. He has worked as a Machinist/CNC programmer covering various areas of the machining industry. (Production Machining, Prototype machining, Press Tool/Die Maker, CNC Programming, Maintenance & repair, and R&D).

Chris Wiggins started machining at an early age in his native Indiana where he made parts for his race car. In high school he took machining in a vocational class for three years. He continued his education at Vincennes University where he studied tool and die making and CNC programming. After graduating from Vincennes with a A.S in Tool and Die and an A.S. in Advanced Manufacturing he moved to Southern California to work at Roland Sands Design and Machine. Utilizing his previous teaching experience in Indiana he has joined NTMA to share his wealth of knowledge with the next generation of manufacturers.

Steven Yackel: A full time credentialed Instructor with 11 years teaching experience. He has over 9 years of professional experience as a machinist in many different capacities; Tool and Die Machinist, maintenance machinist, Aerospace machinist. Managed a shop for an Injection molding company. Went to Long Beach City College, received certificates in CNC Programming, Master Cam, EZ Cam and finished general education class for an AS degree. Steve has over 3400 hours of Certifications in manual lathes, mills, power saws, bench work, drill press and safety.

CNC Machining (144 hour)

Program Scope and Objectives

This introductory class to CNC (computer numerically controlled) machining is designed for experienced machinists and machine operators, who need or want to update their skills in CNC operations, setups, and programming. Students learn to program, setup, and operate CNC lathes and mills. They are taught programming commands (machine commands and addresses), sequence of operations in CNC machining and programming, and data transfer from computer to CNC machine. Students also learn the fundamental use of a computer-aided manufacturing (CAM) system. Instruction time is divided between classroom, computer lab, and shop, providing an unusual blend of practical theory and hands-on experience. Upon graduation, students are able to perform setups of moderate complexity in CNC machining and turning centers. CNC graduates may find beginning to intermediate-level work in the machining trade as a CNC machinist.

Program Hours - Program Sequence

44 hours lecture +100 hours lab =144 hours.

Program Length

Classes are 8 hours on Saturdays for 18 weeks, a total of 144 hours of training.

ETP Requirements

Students enrolling through the state funded program must meet the following criteria:

- Prospective students must be employed full-time for a minimum of 90 days (contact an Advanced Training Representative for details or exceptions), working a minimum of 35 hours per week in the machinist trade.
- Prospective students must earn a minimum wage rate per hour when enrolled in the program based upon where the employer is located. Call an Advanced Training Representative at (562) 404-4295 x.31 for details.
- Prospective students' employers must fill out and sign a Certification Statement (CS).
- Prospective students' employers must fill out and sign a Retraining Enrollment Agreement form.
- Prospective students must have basic knowledge of shop mathematics and blue print reading and be able to read and write in English.

Program Prerequisites

Students enrolling through the state funded program must meet the following criteria: Applicants will receive a Certification Statement (CS) and enrollment document. The applicant's employer must complete the CS and enrollment document and return it to the Training Centers. Successful employers are notified via mail once the applicant has been accepted into the program.

Instructors

All instructors are credentialed or are working toward a credential in Adult Vocational Education. The instructors bring to the classroom and shop many years of practical experience in the machining, tooling and manufacturing industry. Their extensive capabilities and varied backgrounds assure students that they are receiving the highest caliber instruction possible from the most qualified instructors.

Class Size

Approximately 15 to 20 trainees

Program Fees

Tuition for the program is charged for a 16 or 18 week time period.

I. The following approximate cost applies to programs paid for by the student:

Application Fee:	$	75.00
Tuition:	$	3,619.22
(Includes $100.00 non-refundable Registration Fee)		
Books:	$	155.78
Tooling and Supplies:	$	125.00
Total Cost of the Program:	$	3,975.00

II. The following applies to programs funded by the State of California:
   a. Employer has an in-kind contribution of $200.00, which includes the cost of the book.
   b. Students are not required to pay tuition for this program. Payment is based on a contract with the State of California.

Schedule

See Schedule of Classes or call your nearest Advanced Training Representative for details.

Advanced CNC Machining (144 hour)

Program Scope and Objectives

Advanced CNC Machining is offered for students who desire to attain greater proficiency in CNC machining. Mastercam is the CAD/CAM system used to teach students to program multiple-part locations and multiple operations per setup; macro and conditional program statements; and advanced canned cycles. Students are taught to upload and download files to machine stations and other computers. Instruction time is divided between classroom, computer lab, and shop, providing an unusual blend of practical theory and hands-on experience. Students are able to perform complex setups in CNC machining, including CAD/CAM operations upon graduation and may find advance-level work in the machining trade.

Program Hours - Program Sequence

60 hours lecture +84 hours lab =144 hours.

Program Length

Classes are 8 hours per day on Saturdays for 18 weeks = 144hrs.

ETP Requirements

Students enrolling through the state funded program must meet the following criteria:

- Prospective students must be employed full-time for a minimum of 90 days (contact an Advanced Training Representative for details or exceptions), working a minimum of 35 hours per week at the machinist trade.
- Prospective students must earn a minimum wage rate per hour when enrolled in the program based upon where the employer is located. Call an Advanced Training Representative at (562) 404-4295 x.31 for details.
- Prospective students' employers must fill out and sign a Certification Statement (CS).
- Prospective students' employers must fill out and sign a Retraining Enrollment Agreement form.
- Prospective students must have working knowledge of plain geometry and trigonometry and be able to read and write in English.
- One of the following two requirements must be met by prospective students,
    1) completion of the CNC Machining program from any of the NTMA Training Centers of Southern California locations, or
    2) receive a score of at least 75% on the Advanced CNC Skills admission exam.

Program Prerequisites

The applicant must have completed CNC Machining program or pass the Advanced CNC Test. Applicants enrolling through the state funded program will receive a Certification Statement (CS) and enrollment document. The applicant's employer must complete the CS and enrollment document and return it to the Training Centers. Successful entrants' employers are notified via mail once the applicant has been accepted into the program.

Instructors

All instructors are credentialed or are working toward a credential in Adult Vocational Education. The instructors bring to the classroom and shop many years of practical experience in the machining, tooling and manufacturing industry. Their extensive capabilities and varied backgrounds assure students that they are receiving the highest caliber instruction possible from the most qualified instructors.

Class Size

Approximately 15 to 20 trainees

Program Fees

Tuition for the program is charged for a 16 or 18 week time period.

I. The following approximate cost applies to programs paid for by the student:

Application Fee:	$	75.00
Tuition:	$	3,619.22
(Includes $100.00 non-refundable Registration Fee)		
Books:	$	155.78
Tooling and Supplies:	$	125.00
Total Cost of the Program:	$	3,975.00

II. The following applies to programs funded by the State of California:
   a. Employer has an in-kind contribution of $200.00, which includes the cost of the book.
   b. Students are not required to pay tuition for this program. Payment is based on a contract with the State of California.

Schedule

See Schedule of Classes or call your Advanced Training Representative for details.

Mastercam (143 hour)

Program Scope and Objectives

This program is designed to train students to a higher level of competency in the operation and programming of CNC machines through the instruction of Mastercam CAD/CAM. Students learn the use of the CAM system to create and edit programs from blueprints, construct programs using 2D tool paths, and generate programs to construct wire frame models. Students also learn surface modeling, derived and composite surfaces, and make machine parts using learned programming skills. Mastercam graduates may find work at machine shops in the Southern California area operating and programming CNC equipment.

Program Hours - Program Sequence

119 hours lecture + 24 hours lab = 143 hours.

Program Length

Classes are Saturdays, 8 hours a day, for 18 weeks totaling 143 hours.

ETP Requirements

Students enrolling through the state funded program must meet the following criteria:

- Prospective students must be employed full-time for a minimum of 90 days (contact an Advanced Training Representative for details or exceptions), working a minimum of 35 hours per week at the machinist trade.
- Prospective students must earn a minimum wage rate per hour when enrolled in the program based upon where the employer is located. Call an Advanced Training Representative at (562) 404-4295 x.31 for details.
- Prospective students' employers must fill out and sign a Certification Statement (CS).
- Prospective students' employers must fill out and sign a Retraining Enrollment Agreement form.
- Prospective students must have basic knowledge of shop mathematics and blueprint reading and be able to read and write in English.

Program Prerequisites

Students enrolling through the state funded program must meet the following criteria: Applicants will receive a Certification Statement (CS) and enrollment document. The applicant's employer must complete the CS and enrollment document and return it to the Training Centers. Successful entrants' employers are notified via mail once the applicant has been accepted into the program.

Instructors

All instructors are credentialed or are working toward a credential in Adult Vocational Education. The instructors bring to the classroom and shop many years of practical experience in the machining, tooling and manufacturing industry. Their extensive capabilities and varied backgrounds assure students that they are receiving the highest caliber instruction possible from the most qualified instructors.

Class Size

Approximately 10 trainees

Program Fees

Tuition for the program is charged for a 16 or 18 week time period.

I. The following approximate cost applies to programs paid for by the student:

Application Fee:	$	75.00
Tuition:	$	3,619.22
(Includes $100.00 non-refundable Registration Fee)		
Books:	$	155.78
Tooling and Supplies:	$	125.00
Total Cost of the Program:	$	3,975.00

II. The following applies to programs funded by the State of California:
   a. Employer has an in-kind contribution of $200.00, which includes the cost of the book.
   b. Students are not required to pay tuition for this program. Payment is based on a contract with the State of California.

Schedule

See Schedule of Classes or call your Advanced Training Representative for details.

Advanced Mastercam (143 hour)

Program Scope and Objectives

The students will improve their 2D tool-paths and learn how to generate advance tool paths with 3D surface models. The student's competency will advance them into 4th and 5th axis programing. They will learn mill turning and learn how to adjust post processors for other CNC machines in the machine shop. Students will learn Solid Modeling as a tool for the designing of machine parts. Advanced Mastercam graduates may find work at machine shops in advanced designing, 4th & 5th axis programming, solid molding, in CNC programming positions, engineering of parts and working with Quality Control Engineers.

Program Hours - Program Sequence

123 hours lecture + 20 hours lab = 143 hours.

Program Length

Classes are Saturdays, 8 hours a day, for 18 weeks totaling 143 hours.

ETP Requirements

Students enrolling through the state funded program must meet the following criteria:

- Prospective students must be employed full-time for a minimum of 90 days (contact an Advanced Training Representative for details or exceptions), working a minimum of 35 hours per week at the machinist trade.
- Prospective students must earn a minimum wage rate per hour when enrolled in the program based upon where the employer is located. Call an Advanced Training Representative at (562) 404-4295 x.31 for details.
- Prospective students' employers must fill out and sign a Certification Statement (CS).
- Prospective students' employers must fill out and sign a Retraining Enrollment Agreement form.
- Prospective students must have basic knowledge of shop mathematics and blueprint reading and be able to read and write in English.

Program Prerequisites

Applicants must have completed the Mastercam Programming course or pass the Advanced Mastercam Pre-Test. Applicants enrolling through the state funded program will receive a Certification Statement (CS) and enrollment document. The applicant's employer must complete the CS and enrollment document and return it to the Training Centers. Successful entrants' employers are notified via mail once the applicant has been accepted into the program.

Instructors

All instructors are credentialed or are working toward a credential in Adult Vocational Education. The instructors bring to the classroom and shop many years of practical experience in the machining, tooling and manufacturing industry. Their extensive capabilities and varied backgrounds assure students that they are receiving the highest caliber instruction possible from the most qualified instructors.

Class Size

Approximately 10 trainees

Program Fees

Tuition for the program is charged for a 16 or 18 week time period.

I. The following approximate cost applies to programs paid for by the student:

Application Fee:	$	75.00
Tuition:	$	3,619.22
(Includes $100.00 non-refundable Registration Fee)		
Books:	$	155.78
Tooling and Supplies:	$	125.00
Total Cost of the Program:	$	3,975.00

II. The following applies to programs funded by the State of California:
   a. Employer has an in-kind contribution of $200.00, which includes the cost of the book.
   b. Students are not required to pay tuition for this program. Payment is based on a contract with the State of California.

Schedule

See Schedule of Classes or call your Advanced Training Representative for details.

Inspection Training (144 hour)

Program Scope and Objectives

This course is designed to instruct students in inspection techniques and use of Coordinate Measuring Equipment. Machine setup and operation, inspection records and record keeping requirements are covered in the program. Instruction time is divided between classroom and shop, providing an unusual blend of practical theory and hands-on experience. Upon graduation, students qualify for intermediate-level positions in the machining industry.

Program Hours - Program Sequence

124 hours lecture + 20 hours lab = 144 hours.

Program Length

Classes are Saturdays, 8 hours a day, for 18 weeks totaling 144 hours.

ETP Requirements

Students enrolling through the state funded program must meet the following criteria:

- Prospective students must be employed full-time for a minimum of 90 days (contact an Advanced Training Representative for details or exceptions), working a minimum of 35 hours per week at the machinist trade.
- Prospective students must earn a minimum wage rate per hour when enrolled in the program based upon where the employer is located. Call an Advanced Training Representative at (562) 404-4295 x.31 for details.
- Prospective students' employers must fill out and sign a Certification Statement (CS).
- Prospective students' employers must fill out and sign a Retraining Enrollment Agreement form.
- Prospective students must have basic knowledge of shop mathematics and blueprint reading and be able to read and write in English.

Program Prerequisites

Students enrolling through the state funded program must meet the following criteria: Applicants will receive a Certification Statement (CS) and enrollment document. The applicant's employer must complete the CS and enrollment document and return it to the Training Centers. Successful entrants' employers are notified via mail once the applicant has been accepted into the program.

Instructors

All instructors are credentialed or are working toward a credential in Adult Vocational Education. The instructors bring to the classroom and shop many years of practical experience in the machining, tooling and manufacturing industry. Their extensive capabilities and varied backgrounds assure students that they are receiving the highest caliber instruction possible from the most qualified instructors.

Class Size

Approximately 15 to 20 trainees

Program Fees

Tuition for the program is charged for a 16 or 18 week time period.

I. The following approximate cost applies to programs paid for by the student:

Application Fee:	$	75.00
Tuition:	$	3,619.22
(Includes $100.00 non-refundable Registration Fee)		
Books:	$	155.78
Tooling and Supplies:	$	125.00
Total Cost of the Program:	$	3,975.00

II. The following applies to programs funded by the State of California:
   a. Employer has an in-kind contribution of $200.00, which includes the cost of the book.
   b. Students are not required to pay tuition for this program. Payment is based on a contract with the State of California.

Schedule

See Schedule of Classes or call your Advanced Training Representative for details.

NTMA

Training Centers of Southern California

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2 CONVENIENT LOCATIONS

NTMA TRAINING CENTERS OF SOUTHERN CALIFORNIA
Machinist Training Since 1968

Michael Kerwin, President
Gina Marinello, Director, Norwalk Campus
Lilly Ford, Director, Ontario Campus (Satellite Campus)

Call Us at 1-800-962-6862
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