Office of Vocational and Technical Education 2003-2004

Career and technical education programs administered by the Office of Vocational and Technical Education (OVTE) prepare all students for new jobs, roles, technologies, and responsibilities in order to provide a competent workforce to support and enhance Mississippi's economy. The delivery system is effective and responsive to changing needs of business and industry. OVTE programs are part of an integrated educational delivery system that accommodates every secondary and postsecondary school district and provided instructional services to almost two hundred thousand Mississippians (195,558) last year.

Career and technical programs in secondary, postsecondary, short-term adult, industry training, and business and industry partnership settings, enable students to acquire needed skills and abilities and achieve their educational and occupational goals. Programs include: Agriculture, Family & Consumer Sciences, Marketing, Trade and Industrial Education, Cooperative Education, Health, Technical Education, Business Education, Science and Technology, and Short Term Adult Programs to meet local needs.

SECONDARY PROGRAMS

Program	Number of Students Served	Program Information
The Mississippi Tech Prep Initiative		
Career Discovery	33,868 seventh grade students	Two hundred fifty-one (251) Career Discovery programs introduced 33,868 students to career opportunities and the skills needed to develop and implement individual student career/educational plans that reflect student aptitudes, interests, and abilities. The programs provide experiences and activities that promote self-awareness, career exploration, and educational planning related to student's educational and occupational plans.
Computer Discovery	31,107 eighth grade students	Two hundred fifty-six (256) Computer Discovery programs exposed 31,107 students to a multimedia environment in which they developed computer skills, keyboarding, using operating systems (Windows), and file management. Real-world applications in word processing, graphics, databases, telecommunications, spreadsheets, and desktop publishing make the course exciting, relevant, and challenging.

Technology Discovery	28,622 ninth grade students	Two hundred sixteen (216) Technology Discovery programs enabled 28,622 students to explore technology resources, processes, and systems that lead to enhanced career development and advanced education. Students learned through researching, visualizing, modeling, designing, simulating, prototyping, keeping journals, preparing and making presentations and demonstrations, problem-solving, role-playing, and testing.
The comprehensive career planning/counseling component of Tech Prep organizes and expands career development strategies, activities, and experiences and assists all students in making realistic, achievable career plans. The career plans initiated in the seventh grade and updated annually through the twelfth grade help keep students focused on their goals.		
Secondary Non-occupational Programs		
Introduction to Agriculture Science	1,770 students	Fifty-three (53) introductions to Agriculture Science programs served 1,770 students.
Family and Consumer Sciences	26,272 students	Two hundred twenty-four (224) Family and Consumer Sciences Programs funded through H.B. 1467 served 26,272 unduplicated students. Approximately 14,000 of these students enrolled in more than one of the course offerings that included Family Dynamics in 9th through 12th grades and other, optional, courses such as Child Development, Family/Individual Health, Family Living & Parenthood, Foods & Nutrition, Nutrition & Wellness, Personal Development, and Resource Management. Total (duplicated) enrollment for Family and Consumer Science courses was over 40,000 students.
Technology Applications	995 students	Forty-seven Technology Applications programs served nine hundred ninety-five (995) students.

Secondary Occupational Programs and Enrollment		
Secondary occupational programs	26,813 students Enrollment consists of students in grades 10-12. (See chart below.)	Secondary occupational programs provide for the development of essential, program area specific, occupational and entrepreneurial skills for students in grades ten through twelve. Instruction in these programs incorporates structured learning activities that integrate vocational and academic objectives. Upon program completion, individuals possess marketable job skills and may enter the workforce or pursue postsecondary education, in directly related or indirectly related occupational and technical areas with possibilities for advanced placement, or other postsecondary offerings. Nine hundred ninety-three (993) secondary occupational programs served 26,813 students.

Secondary Occupational Programs and Enrollments
(in Classification of Instructional Programs (CIP) Code Numerical Order)

CIP CODE	PROGRAM NAME	NUMBER OF PROGRAMS	ENROLLMENT
000204	COOPERATIVE EDUCATION	82	2,343
010000	AGRICULTURE, GENERAL	27	736
010002	CONCEPTS OF AGRICULTURAL SCIENCE	39	1,497
010101	AGRICULTURAL BUSINESS & MGMT.- GENE	9	136
010103	AGBUSINESS & ENTREPRENEURSHIP(AEST)	25	148
010204	AGRICULTURAL POWER MACHINERY OPERATION	22	563
010205	AGRICULTURAL MECHANICS & EQUIPMENT	8	120
010301	AGRICULTURAL PRODUCTION WORKERS &	34	737
010303	AQUACULTURE OPERATIONS & PROD MGMT.	1	39
010401	AG & FOOD PRODUCTS PROCESSING	2	45
010601	HORTICULTURE SERVICE OP & MGMT.- GENE	9	162
010901	ANIMAL SCIENCES, GENERAL	15	201
011101	PLANT SCIENCES, GENERAL	26	369
030104	ENVIRONMENTAL SCIENCE	24	314
030401	FOREST HARVESTING & PROD. TECH.	10	217
100202	RADIO/TELEVISION BROADCASTING TECH	1	6
100305	GRAPHIC & PRINTING EQUIP. OPERATOR	5	117
110201	COMPUTER PROGRAMMING/PROGRAMMER	1	33
120401	COSMETOLOGY/COSMETOLOGIST, GENERAL	2	39
120500	COOKING & RELATED CULINARY ARTS	34	1,006
150607	PLASTICS ENGINEERING TECHNOLOGY	2	32
151202	COMPUTER TECHNOLOGY/COMPUTER SYSTEM	11	274
151301	DRAFTING & DESIGN TECHNOLOGY	24	486
151302	CAD/COMPUTER AIDED DESIGN	1	35

CIP CODE	PROGRAM NAME	NUMBER OF PROGRAMS	ENROLLMENT
151306	MECHANICAL DRAWING	1	39
190702	ADULT DEVELOPMENT AND AGING	1	9
190709	CHILD CARE PROVIDER/ASSISTANT	41	1,204
190901	APPAREL AND TEXTILES, GENERAL	16	406
460000	CONSTRUCTION TRADES, GENERAL	70	1,860
460101	MASON & TILE SETTER	9	177
460201	CARPENTER	14	344
460302	ELECTRICIAN	9	181
470101	ELECTRICAL/ELECTRONICS EQPT. INSTALLER	8	132
470201	HEATING & AIR CONDITIONING & REFRIG.	4	87
470303	INDUSTRIAL MECHANICS & MAINT. TECH.	6	118
470603	AUTO/AUTOMOTIVE BODY REPAIRER	18	578
470604	AUTO/AUTOMOTIVE MECHANIC/TECH	56	1,688
470605	DIESEL EQUIPMENT REPAIR & SERVICES	2	19
470606	SMALL ENGINE MECHANIC & REPAIRER	4	56
470692	OUTBOARD ENGINE MECHANICS	1	31
470699	VEHICLE & MOBILE EQUIP. MECHANICS	20	613
480503	MACHINE SHOP ASSISTANT	4	83
480508	WELDER/WELDING TECHNOLOGIST	17	448
480590	METAL TRADES	44	1,175
480702	FURNITURE DESIGN & MANUFACTURING	4	89
500402	GRAPHIC DESIGN- COMMERCIAL ART	2	66
510000	HEALTH SERVICES/ALLIED HEALTH, GEN.	91	3,419
520407	BUSINESS/OFFICE AUTOMATION/TECHNOL.	103	3,124
520901	HOSPITALITY ADMINISTRATION/MANAGEMENT	3	60
521801	SALES, DISTRIBUTION & MARKETING OPS	31	1,152
	Totals	**993**	**26,813**

The data presented above were collected by OVTE as Final Vocational Program Enrollment data for the 2003-2004 school year. The Classification of Instructional Programs (CIP) codes were initially developed by the U. S. Department of Education (USDE) National Center for Education Statistics (NCES) in 1980 and were revised in 1985 and 1990. Major changes have been made in the CIP-2000 revision. The implementation of the changes is incomplete at present and therefore correlated demand data for vocational-technical courses is not currently available. Care should be exercised in the use of these data for decision-making purposes. If more information is needed, please contact the Office of Vocational and Technical Education.

POST-SECONDARY PROGRAMS

Postsecondary programs provide beginning, advanced, and technical, program area specific, occupational and entrepreneurial preparation for skilled/technical occupations. These programs reflect current and emerging technologies and address the needs of industry and other employers. State-of-the-art technology used in industry and integrated academic components are incorporated in the curriculum. Upon completion of a postsecondary occupational program, individuals are prepared to enter skilled/technical level occupations. In FY2004, 435 postsecondary programs served 21,784 students.

Post-secondary Occupational Programs and Enrollments
(in Classification of Instructional Programs (CIP) Code Numerical Order)

CIP CODE	PROGRAM NAME	NUMBER OF PROGRAMS	ENROLLMENT
000254	SCIENCE AND TECHNOLOGY	3	274
010102	AGRICULTURAL BUSINESS/AGRIBUSINESS	1	27
010104	FARM & RANCH MANAGEMENT- GENERAL	1	42
010105	AGRICULTURAL/FARM SUPPLIES RETAILING	1	35
010299	AGRICULTURAL MECHANIZATION- OTHER	3	38
010302	AGRICULTURAL ANIMAL HUSBANDRY/PRODU	1	16
010303	AQUACULTURE OPERATIONS & PROD MGMT.	1	18
010492	FOODS PRODUCTS (MEATS-CERTIFICATE)	2	41
010601	HORTICULTURE SERVICE OP & MGMT.- GE	3	105
010605	LANDSCAPING OP. & MGMT.	3	78
010607	TURF MANAGEMENT	1	21
030401	FOREST HARVESTING & PROD. TECH.	4	93
030509	WOOD SCIENCE & PULP/PAPER TECH	1	12
080102	FASHION MERCHANDISING	2	62
081203	VEHICLE PARTS & ACCESSORIES MKTG. OPS	1	22
100202	RADIO/TELEVISION BROADCASTING TECH	1	22
100305	GRAPHIC & PRINTING EQUIP. OPERATOR	1	11
110201	COMPUTER PROGRAMMING/PROGRAMMER	11	1,381
110901	COMPUTER SYSTEMS NETWORKING & TELEC	12	738
111004	WEB/MULTIMEDIA MGT & WEBMASTER	1	6
120301	FUNERAL SERVICE & MORTUARY SCIENCE	4	268
120401	COSMETOLOGY/COSMETOLOGIST, GENERAL	12	466
120402	BARBER/HAIRSTYLIST	4	144
120500	COOKING & RELATED CULINARY ARTS	4	121
120503	CULINARY ARTS/CHEF TRAINING	1	37
150101	ARCHITECTURAL ENGINEERING TECH	6	180
150201	CIVIL ENGINEERING/CIVIL TECHNOLOGY	3	66
150303	ELECTRICAL& ELECTRONIC & COMM. TECH	19	984
150305	TELECOMMUNICATIONS TECHNOLOGY/TECHN	3	99
150507	ENVIRONMENTAL & POLLUTION CONTROL	2	37
150607	PLASTICS ENGINEERING TECHNOLOGY	1	11
150613	MANUFACTURING TECHNOLOGY/TECHNICIAN	5	130
150699	PROCESS CONTROL TECHNOLOGY	1	9
151301	DRAFTING & DESIGN TECHNOLOGY	15	867
190705	GERONTOLOGY	1	20
190709	CHILD CARE PROVIDER/ASSISTANT	15	1,159
190901	APPAREL AND TEXTILES, GENERAL	1	28
220302	LEGAL ASSISTANT/PARALEGAL	5	415
460101	MASON & TILE SETTER	4	81
460201	CARPENTER	7	189
460302	ELECTRICIAN	11	591
460503	PLUMBING TECHNOLOGY/PLUMBER	2	35
460504	WELL DRILLING/DRILLER	1	25
470103	COMMUNICATION SYSTEMS INSTALLER	2	66
470104	COMPUTER INSTALLATION & REPAIR TECH	4	165

470201	HEATING & AIR CONDITIONING & REFRIG.	14	500
470302	HEAVY EQUIP MAINT. & REPAIRER	3	80
470303	INDUSTRIAL MECHANICS & MAINT. TECH.	3	66
470408	WATCH & CLOCK & JEWELRY REPAIRER	1	40
470603	AUTO/AUTOMOTIVE BODY REPAIRER	9	227
470604	AUTO/AUTOMOTIVE MECHANIC/TECH	16	522
470605	DIESEL EQUIPMENT REPAIR & SERVICES	2	47
470607	AIRCRAFT POWERPLANT TECHNOLOGY	2	37
470615	ENGINE MACHINIST	3	72
470692	OUTBOARD ENGINE MECHANICS	1	35
480501	MACHINIST/MACHINE TECHNOLOGIST	1	11
480503	MACHINE SHOP ASSISTANT	12	237
480506	SHEET METAL WORKER	1	23
480507	TOOL & DIE MAKER/TECHNOLOGIST	3	58
480508	WELDER/WELDING TECHNOLOGIST	20	540
490202	CONSTRUCTION EQUIPMENT OPERATOR	2	25
490205	TRUCK/BUS/OTHER-COMMERCIAL VEHICLE	8	192
500402	GRAPHIC DESIGN- COMMERCIAL ART	3	119
510601	DENTAL ASSISTANT	2	93
510602	DENTAL HYGIENIST	3	81
510707	MEDICAL RECORDS TECH	3	170
510716	MEDICAL ADMIN/EXEC. ASSIST/MED.SECTY	2	150
510801	MEDICAL ASSISTANT	2	38
510803	OCCUPATIONAL THERAPY ASSISTANT	2	65
510805	PHARMACY TECH/ASSISTANT	1	37
510806	PHYSICAL THERAPY ASSISTANT	4	117
510808	VETERINARIAN ASST.-ANIMAL HEALTH	1	35
510899	HEALTH & MEDICAL ASSISTANTS, OTHER	1	16
510901	CARDIOVASCULAR TECHNOLOGY	1	27
510904	EMERGENCY MEDICAL TECHNOLOGY	6	349
510907	MEDICAL RADIOLOGIC TECHNOLOGY	9	527
510908	RESPIRATORY THERAPY TECH	8	279
510909	SURGICAL/OPERATING ROOM TECH	6	195
510910	DIAGNOSTIC MEDICAL SONOGRAPHY	2	24
511004	MEDICAL LABORATORY TECH	7	289
511613	PRACTICAL NURSE (LPN TRAINING)	23	1,416
511614	NURSING ASSISTANT/AIDE	5	197
511801	OPTICIANRY/DISPENSING OPTICIAN	1	24
520302	ACCOUNTING TECH	1	19
520401	ADMINISTRATIVE ASSIST/SECRETARIAL	31	4,315
520803	BANKING & FINANCIAL SUPPORT SERVICE	2	121
520901	HOSPITALITY ADMINISTRATION/MANAGEMENT	8	305
521401	BUSINESS MARKETING & MARKETING MGT.	13	829
	Totals	**435**	**21,784**

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Short-Term Adult Programs

In FY2004 two hundred sixty-five (265), state funded short-term adult programs were conducted by secondary institutions providing 3,729 adult students with marketable skills. Four hundred twenty-nine (429) state funded programs were conducted by postsecondary institutions providing training to 5,425 adults. Two hundred forty-one (241) federally funded short-term adult programs conducted by secondary and postsecondary districts served 2,943 adult students.

Accountability and Assessment	
Vocational assessment programs	The Mississippi Department of Education Office of Student Assessment, in cooperation with the OVTE, has developed and implemented a customized vocational assessment program, Mississippi Career Planning and Assessment System (MS-CPAS), which is used to determine progress in attaining educational goals. MS-CPAS is comprised of two parts, (1) the American College Testing (ACT) workplace readiness examination known as Work Keys to assess work readiness and (2) a number of occupation-specific examinations that have been developed by the Mississippi State Research and Curriculum Unit (RCU) for use in measuring occupational knowledge and skills. CPAS is printed and scored by Southern Illinois University. The occupation-specific examinations are each tailored to correspond to specific vocational-technical programs within the Mississippi Curriculum Framework. In FY2004 (school year 2003-2004), the three (3) Work Keys components (Reading for Information, Applied Mathematics, and Locating Information) were each administered to secondary program completers of forty-four (44) vocational-technical program CIP types and to postsecondary program completers of ninety-one (91) vocational-technical program CIP types. Thirty-three (33) occupation-specific examinations were administered to completers of secondary vocational-technical program CIP types and thirty-three (33) occupation-specific examinations were administered to completers of postsecondary vocational-technical program CIP types.