This document is a guide to resources supporting the development of educational standards for students. Section 1, Industry Skill Standards, describes and provides contact information of resources on the efforts of the National Skill Standards Board to develop industry skill standards for all sectors of the American economy. The section addresses these topics: the board's current efforts in the development of voluntary partnerships in 16 broad economic sectors; grants to industry and research groups to further develop and demonstrate how skill standards would be used in specific industries and occupations; and building linkages with both academic standards and school-to-work efforts. Section 2, Academic Skill Standards, provides names and contact information for seven national organizations in the process of developing and adopting national standards in academic subject areas. Section 3, Other Standards Resources, provides names, contact information, and brief descriptions of 20 organizations involved in developing standards, both academic and vocational. Section 4, Standards for Teachers, discusses and provides contact information for three organizations that have developed standards for teacher licensing, advanced certification, and teacher education program accreditation. Section 5, Vocational Student Organizations (VSOs), describes and provides contact information on seven VSOs. Section 6 contains 11 references. (YLB)
RESOURCE GUIDE
TO EDUCATIONAL STANDARDS

Patricia A. Holmes
Mikala L. Rahn
Public Works

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Berkeley, CA 94720-1674

Supported by
The Office of Vocational and Adult Education,
U.S. Department of Education

September 1998
MDS-1205
FUNDING INFORMATION

Project Title: National Center for Research in Vocational Education
Grant Number: V051A30003-98A/V051A30004-98A
Act under which Funds Administered: Carl D. Perkins Vocational Education Act
P.L. 98-524
Source of Grant: Office of Vocational and Adult Education
U.S. Department of Education
Washington, DC 20202
Grantee: The Regents of the University of California
c/o National Center for Research in Vocational Education
2030 Addison Street, Suite 500
Berkeley, CA 94720-1674
Director: David Stern
Percent of Total Grant Financed by Federal Money: 100%
Dollar Amount of Federal Funds for Grant: $4,500,000
Disclaimer: This publication was prepared pursuant to a grant with the Office of Vocational and Adult Education, U.S. Department of Education. Grantees undertaking such projects under government sponsorship are encouraged to express freely their judgement in professional and technical matters. Points of view or opinions do not, therefore, necessarily represent official U.S. Department of Education position or policy.
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<td>Section 6: Bibliography</td>
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This document has been prepared by the National Center for Research in Vocational Education (NCRVE) as a guide to resources supporting the development of educational standards for students. Standards for what all students should know and be able to do have become a hallmark of educational reform that spans knowledge of academic subject areas, general workforce preparation competencies, and more specific industry and occupational qualifications.

Beginning in the 1980s, evidence that American students lagged far behind the academic performance and workforce preparation of students in other nations generated a national clamor for change that resulted in sustained efforts to improve public education at the local, state, and national levels. Despite the wide range of approaches to improve education attempted during this time, there was little indication that student learning had improved substantially, if at all, in national assessments taken after this initial wave of education reform. Studies of the reform efforts indicated that most states had attempted to improve student performance by mandating additional rules and regulations on top of an already overburdened system. Legislatures increased the number of school days, required additional academic courses for graduation, and tightened licensing requirements for teachers. The introduction of various pieces of legislation essentially mandated regulatory change rather than supporting instructional and curricular improvements that were directly tied to improving the learning of all students.

In the early 1990s, the lack of improvement in student achievement fueled a growing consensus around the need for change at all levels of the educational delivery system and for developing a common understanding of the level of academic achievement that students would need in an advanced, technology driven society. This reform movement was termed ‘systemic’ and is an approach to reform that centers around setting higher standards for students, teachers, and schools and developing accountability systems to monitor whether these standards are being met. Another element of ‘systemic’ reform is to allow schools some freedom from rules and regulations that can hamper principals, teachers, and other school staff from focusing on innovative instructional strategies and developing challenging curriculum to meet the individual needs of students.
Since the introduction of 'systemic' reform, standards for students have been introduced by a wide range of organizations and all states except one. These organizations include national subject matter specialists such as the National Council of Teachers of Math, national commissions appointed by the federal government such as the Secretary's Commission on Achieving Necessary Skills (SCANS), and industry groups like the Council on Hotel, Restaurant, and Institutional Education's hospitality and tourism standards. This document serves as a resource guide to the wide range of efforts currently under way to define the essential skills and competencies that Americans will need now and in the future. It includes:

- Section 1—Industry Skill Standards. Resources on the efforts of the National Skill Standards Board to develop industry skill standards for all sectors of the American economy.

- Section 2—Academic Skill Standards. National organizations in the process of developing and adopting national standards in academic subject areas.

- Section 3—Other Standards Resources. Organizations involved in developing standards, both academic and vocational.

- Section 4—Standards for Teachers. Organizations that have developed standards for teacher licensing, advanced certification, and teacher education program accreditation.

- Section 5—Vocational Student Organizations. Organizations such as VICA, HOSA, and others.

- Section 6—Bibliography.

This document is available on the NCRVE web site at http://ncrve.berkeley.edu. Other vocational sources can also be found through the Office of Adult and Vocational Education web site (http://www.ed.gov/offices/OVAE).
In 1992 and 1993, the U.S. Department of Labor entered into agreements with 22 organizations representing various industries to develop pilot projects demonstrating an approach to setting voluntary standards. The National Skill Standards Act of 1994 established the National Skill Standards Board as a coordinating board for developing a national voluntary skill standards system. The Board includes 28 independent representatives of business, labor, and education and as well as civic leaders from the Commerce Department, the Department of Labor, and the Department of Education. The Board’s current efforts include the development of voluntary partnerships in 16 broad economic sectors (three have been sponsored to date), grants to industry and research groups to further develop and demonstrate how skill standards would be used in specific industries and occupations (nine grants were awarded in 1996 to twelve groups), and building linkages with both academic standards and school-to-work efforts.

Voluntary Partnerships—NSSB Contact: Sally Waldron

The NSSB will sponsor voluntary partnerships in each of 16 economic sectors. The Board has begun its work in three of these sectors: Manufacturing, Installation, and Repair; Wholesale/Retail Sales; and Business and Administrative Services.

<table>
<thead>
<tr>
<th>NSSB Economic Sectors:</th>
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</thead>
<tbody>
<tr>
<td>Agricultural Production and Natural Resource Management</td>
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<tr>
<td>Manufacturing, Installation, and Repair</td>
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<td>Communications</td>
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<td>Education and Training Services</td>
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<tr>
<td>Research, Development and Technical Services</td>
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</tbody>
</table>
Grants to Industry and Research Groups—Project Contacts Listed Below

Following up on the work of the initial 22 organizations funded in 1992 and 1993, the NSSB awarded nine grants to 12 industry and research groups to further develop skill standards in specific industries and occupations. These grants support efforts to test how standards might be implemented in the workplace, develop guidelines for assessment and certification, assist in the development of curriculum and teaching guidelines for the standards, and build partnerships among constituencies for implementation of a voluntary skill standard system. (full text of industry standards in all 22 areas and descriptions of each project are available on the NSSB web site)

Bioscience (EDC in collaboration with the National Future Farmers of America Foundation)
Judith Leff, Senior Project Director
Education Development Center (EDC), 55 Chapel Street, Newton, MA 02158
phone: 617-969-7100, fax: 617-332-4318, email: judyl@edc.org

Health Care
Sri Ananda, Project Director
WestEd, 730 Harrison Street, San Francisco, CA 94107-1242
phone: 415-241-2712, fax: 415-241-2702, email: sananda@fwl.org

Human Services
Marianne Taylor, Project Director
Human Services Research Institute (HSRI), 2336 Massachusetts Avenue
Cambridge, MA 02140
phone: 617-876-0426, fax: 617-492-7401, email: marianne@hsri.org

Chemical Process
Kenneth Chapman, Head of Technicians Resources/Education
American Chemical Society (ACS), 1155 16th Street, NW, Washington, DC 20036
phone: 202-872-8734, fax: 202-872-8068, email: kmc97@acs.org

Heavy Highway Construction
John Tippie, Associate Director for Western U.S. & Canada
Laborers-AGC Education and Training Fund, P.O. Box 479, 27055 Ohio Avenue
Kingston, WA 98346
phone: 360-297-4152, fax: 360-297-3368, email: 71112.1275@compuserve.com

Photonics (CORD and the Electronics Industries Foundation/Electronics Industries Association)
Darrell Hull, Project Director
Center for Occupational Research and Development (CORD)
601 Lake Air Drive, Waco, TX 76710
phone: 817-772-8756 or 800-972-2766, email: dhull@cord.org
Electronics
Andrea Fiorelli, Grant Project Manager, Center for Workforce Excellence, American Electronics Association
5201 Great America Parkway, Box 54990, Santa Clara, CA 95056
phone: 800-284-4232 or 408-987-4241 (direct line), email: andrea_fiorelli@aeenet.org
or Pat Hill Hubbard, Senior VP for Executive Development (408-987-4242)

Hospitality & Tourism
Susan Dowler, Project Director
Council on Hotel, Restaurant and Institutional Education (CHRIE)
1200 17th Street, NW, Washington, DC 20036-3097
phone: 202-331-5990, fax: 202-785-2511, email: alliance@access.digex.net

Retail Trade
Kathryn J. Mannes, Education Coordinator
National Retail Federation (NRF)
Liberty Place, 325 7th Street NW, Suite 1000, Washington, DC 20004
phone: 202-783-7971, 202-626-8110 (direct line), fax: 202-737-2849

Other Occupational Skill Standards Projects available on the NSSB web site: Advanced High Performance Manufacturing; Agriscience Biotechnology; Air Conditioning, Heating, and Refrigeration; Automobile, Autobody, Medium/Heavy Truck Technician; Computer Aided Drafting and Design; Electrical Construction; Electronics; Grocery; Hazardous Materials Management Technology; Industrial Laundry; Metal Working; Printing; and Welding

State Skill Standards Initiatives available from the NSSB web site include links to: Alabama, California, Colorado, Illinois, Iowa, Louisiana, New Hampshire, Oregon, Tennessee, Texas, Vermont, and Washington

Skill Standards Ordering Information
Skill standards in all twenty two areas can be ordered from the following organizations. Many of the organizations are also developing instructional guides and information about assessments that will be implemented to certify students skills. A web site listing of skill standard projects is also available at http://vocserve.berkeley.edu/skillstandard.html
<table>
<thead>
<tr>
<th>Skill Standards Organization Information</th>
<th>Ordering Information</th>
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<tbody>
<tr>
<td><strong>Advanced High Performance Manufacturing</strong>&lt;br&gt;National Coalition for Advanced Manufacturing (NACFAM)&lt;br&gt;1331 Pennsylvania Avenue NW&lt;br&gt;Suite 1410 North&lt;br&gt;Washington, DC 20004&lt;br&gt;Tel: 202-216-2740&lt;br&gt;Fax: 202-289-7618</td>
<td>Contact organization or find ordering information on web site:&lt;br&gt;<a href="http://www.bmpcoe.org/nacfam/">http://www.bmpcoe.org/nacfam/</a></td>
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<tr>
<td><strong>Agriscience Biotechnology</strong>&lt;br&gt;National FFA Foundation&lt;br&gt;P.O. Box 15160&lt;br&gt;Alexandria, VA 22309-0160&lt;br&gt;Tel: 703-360-3600&lt;br&gt;Fax: 703-360-5524</td>
<td>Contact organization for ordering information</td>
</tr>
<tr>
<td><strong>Air Conditioning, Heating, and Refrigeration</strong>&lt;br&gt;V-TECS, Southern Association of Colleges and Schools&lt;br&gt;1866 Southern Lane&lt;br&gt;Decatur, GA 30033-4097&lt;br&gt;Tel: 800-248-7701&lt;br&gt;Fax: 404-679-4556</td>
<td>Contact organization for ordering information</td>
</tr>
<tr>
<td><strong>Automobile, Autobody, Medium/Heavy Truck Technician</strong>&lt;br&gt;National Automotive Technicians Education Foundation (NATEF)&lt;br&gt;13505 Dulles Technology Drive, Suite 2&lt;br&gt;Herndon, VA 22071-3421&lt;br&gt;Tel: 703-713-0100&lt;br&gt;Fax: 703-713-0727</td>
<td>Contact organization for ordering information</td>
</tr>
<tr>
<td><strong>Bioscience</strong>&lt;br&gt;Bioscience Industry Skills Project&lt;br&gt;55 Chapel Street&lt;br&gt;Newton, MA 02158-1060&lt;br&gt;Tel: 617-969-7101&lt;br&gt;Fax: 617-332-4318</td>
<td>Contact the Education Development Center, P.O. Box 1020&lt;br&gt;Sewickley, PA 15143-1020&lt;br&gt;Tel: 800-793-5076&lt;br&gt;Fax: 412-741-0609</td>
</tr>
<tr>
<td><strong>Chemical Process</strong>&lt;br&gt;Technicians Resources/Education&lt;br&gt;American Chemical Society&lt;br&gt;1155 16th Street NW&lt;br&gt;Washington, DC 20036&lt;br&gt;Tel: 202-872-8734&lt;br&gt;Fax: 202-872-8068</td>
<td>Contact organization at 800-227-9919 for ordering information</td>
</tr>
<tr>
<td><strong>Computer Aided Drafting and Design (CADD)</strong>&lt;br&gt;National Coalition for Advanced Manufacturing (NACFAM)&lt;br&gt;1331 Pennsylvania Avenue NW&lt;br&gt;Suite 1410 North&lt;br&gt;Washington, DC 20004&lt;br&gt;Tel: 202-216-2740&lt;br&gt;Fax: 202-289-7618</td>
<td>Contact organization or find ordering information on web site:&lt;br&gt;<a href="http://www.bmpcoe.org/nacfam/">http://www.bmpcoe.org/nacfam/</a></td>
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<td>Skill Standards Organization Information</td>
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<tr>
<td><strong>Electrical Construction</strong></td>
<td>Contact organization for ordering information. Fax credit card orders to: 301-215-4545</td>
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<tr>
<td>National Electrical Contractors Association (NECA)</td>
<td></td>
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<tr>
<td>3 Bethesda Metro Center</td>
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<tr>
<td>Suite 1100</td>
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<td>Bethesda, MD 20814</td>
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<tr>
<td>Tel: 301-215-4512</td>
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<tr>
<td>Fax: 301-215-4500</td>
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<tr>
<td><strong>Electronics</strong></td>
<td>Contact organization for ordering information</td>
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<tr>
<td>American Electronics Association</td>
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<tr>
<td>5201 Great America Parkway</td>
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<tr>
<td>Box 54990</td>
<td></td>
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<tr>
<td>Santa Clara, CA 95056</td>
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<tr>
<td>Tel: 800-284-4232</td>
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<tr>
<td><strong>Electronics Technicians</strong></td>
<td>Order from the Consumer Electronics Manufacturers Association/CEMA-EIF</td>
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<tr>
<td>Electronic Industries Association/CEMA</td>
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<tr>
<td>2500 Wilson Blvd.</td>
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<tr>
<td>Arlington, VA 22201-3834</td>
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<tr>
<td>Tel: 703-907-7670</td>
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<tr>
<td><strong>Grocery</strong></td>
<td>Contact organization for ordering information</td>
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<tr>
<td>Grocers Research and Education Foundation (GREF)</td>
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<tr>
<td>1825 Samuel Morse Drive</td>
<td></td>
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<tr>
<td>Reston, VA 22090</td>
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<tr>
<td>Tel: 703-437-5300</td>
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<tr>
<td>Fax: 703-437-7768</td>
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<tr>
<td><strong>Hazardous Material Management Technology</strong></td>
<td>Contact CORD Communications for ordering information at 800-231-3015, 301-215-4512</td>
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<tr>
<td>Center for Occupational Research and Development (CORD)</td>
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<tr>
<td>601 Lake Air Drive</td>
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<tr>
<td>Waco, TX 76710</td>
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<tr>
<td>Tel: 817-772-8756</td>
<td></td>
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<tr>
<td>Fax: 817-772-8972</td>
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<tr>
<td><strong>Health Care</strong></td>
<td>Contact Publications at WestEd</td>
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<tr>
<td>WestEd</td>
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<tr>
<td>730 Harrison Street</td>
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<td>San Francisco, CA 94107-1242</td>
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<td>Tel: 415-241-2712</td>
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<td>Fax: 415-241-2702</td>
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<td><strong>Heavy Highway Construction</strong></td>
<td>Contact organization for ordering information</td>
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<td>Laborers-AGC Education and Training Fund</td>
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<td>P.O. Box 479</td>
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<tr>
<td>27055 Kingston, WA 98346</td>
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<td>Tel: 360-297-4152</td>
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<td>Fax: 360-297-3368</td>
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<tr>
<td><strong>Hospitality and Tourism</strong></td>
<td>Contact organization for ordering information</td>
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<tr>
<td>Council on Hotel, Restaurant and Institutional Education (CHRIE)</td>
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<tr>
<td>1200 17th Street, NW</td>
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<td>Washington, DC 20036-3097</td>
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<td>Tel: 202-331-5990</td>
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<td>Fax: 202-785-2511</td>
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<td>Skill Standards Organization Information</td>
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<tr>
<td><strong>Human Services</strong></td>
<td>Contact the organization for ordering information. Orders can be faxed to 617-492-7401.</td>
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<tr>
<td>Human Services Research Institute</td>
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<tr>
<td>2336 Massachusetts Avenue</td>
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<tr>
<td>Cambridge, MA 02140</td>
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<td>Tel: 617-876-0426</td>
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<td>Fax: 617-492-7401</td>
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<tr>
<td><strong>Industrial Laundry</strong></td>
<td>Contact organization for ordering information</td>
</tr>
<tr>
<td>Uniform and Textile Service Association</td>
<td></td>
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<tr>
<td>1300 North 17th Street, Suite 750</td>
<td></td>
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<tr>
<td>Rosslyn, VA 22209</td>
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<tr>
<td>Tel: 703-247-2608</td>
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<tr>
<td>Fax: 703-841-4750</td>
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<tr>
<td><strong>Metalworking</strong></td>
<td>Contact organization or find ordering information on web site: <a href="http://www.nims-skills.org/">http://www.nims-skills.org/</a></td>
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<tr>
<td>National Institute for Metal Working Skills</td>
<td></td>
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<tr>
<td>2209 Hunter Mill Road</td>
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<tr>
<td>Vienna, VA 22181</td>
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<td>Tel: 703-255-5886</td>
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<td>Fax: 703-938-4342</td>
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<tr>
<td><strong>Photonics</strong></td>
<td>Contact organization for ordering information</td>
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<tr>
<td>Center for Occupational Research and Development</td>
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<tr>
<td>601 Lake Air Drive</td>
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<td>Waco, TX 76710</td>
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<tr>
<td>Tel: 817-772-8756 or 800-972-2766</td>
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<tr>
<td><strong>Printing</strong></td>
<td>Contact the order department</td>
</tr>
<tr>
<td>National Council for Skill Standards in Graphic Communications</td>
<td>stack the organization for ordering information at 800-NRF-HOW2, attention Publications</td>
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<tr>
<td>206 Lafayette Center</td>
<td></td>
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<tr>
<td>Kennebunk, ME 04043</td>
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<tr>
<td>Tel: 207-985-9898</td>
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<tr>
<td>Fax: 207-985-6347</td>
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<tr>
<td><strong>Retail Trade</strong></td>
<td>Contact the organization for ordering information at 800-334-9353 or at their web site <a href="http://www.aws.org">http://www.aws.org</a></td>
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<tr>
<td>National Retail Federation</td>
<td></td>
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<tr>
<td>Liberty Place 325 7th Street NW</td>
<td></td>
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<tr>
<td>Suite 1000</td>
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<tr>
<td>Washington, DC 20004</td>
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<td>Tel: 202-783-7971</td>
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<td>Fax: 202-737-2849</td>
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<tr>
<td><strong>Welding</strong></td>
<td>Contact the organization for ordering information at 800-334-9353 or at their web site <a href="http://www.aws.org">http://www.aws.org</a></td>
</tr>
<tr>
<td>American Welding Society</td>
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<tr>
<td>550 NW LeJeune Road</td>
<td></td>
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<tr>
<td>Miami, FL 33126</td>
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<tr>
<td>Tel: 305-443-9353</td>
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<td>Fax: 305-443-7559</td>
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**Building Linkages Project—NSSB Contact: Laura Pfalzer**

In collaboration with the U.S. Department of Education’s Office of Vocational and Adult Education and the National School-to-Work Opportunities Office, the NSSB is sponsoring a project to coordinate skill standards with both academic standards and school-to-work efforts. For this initiative, groups of school-to-work implementation states have joined
together in consortia to explore the integration of academic and industry-based skill standards with the state career pathway systems. Each consortium will develop materials for educators and employers, multiple assessments, and certification recommendations.

**Consortium I: Health Care**

State Lead: Utah, State Office of Education (in conjunction with New Jersey)
Contact: Mr. Scott Hess, School-to-Work Coordinator, 801-538-7850
Other states: Arizona, California, Colorado, Florida, Iowa, Kansas, Maine, Maryland, Massachusetts, Michigan, New York, New Jersey, North Carolina, Oklahoma, Tennessee, Texas, Utah, and West Virginia (others may have joined, information from the 1996 NSSB Report to Congress)

**Consortium II: Manufacturing**

State Lead: Indiana, Department of Workforce Development
Contact: Terry Fields, 317-232-1829
Web site: http://www.mfglinks.org
Other states: Arizona, Hawaii, Idaho, Illinois, Indiana, Kentucky, Maryland, Michigan, Nebraska, Oklahoma, and Pennsylvania (others may have joined, information from the 1996 NSSB Report to Congress)

**Consortium III: Business/Management**

State Lead: Oregon Workforce Quality Council
Contact: Sharon McFarland, Project Director, Far West States Standards Project, 503-391-7430
Other states: California, Oregon, Washington, and Indiana
Frameworks for standards by academic discipline have been developed by a variety of national organizations and have begun to define what students should be able to master at different grade levels or grade clusters. Information about the standards and, in most cases, the standards developed by each of the following organizations are available on their web sites.

**National Council of Teachers of Mathematics (NCTM)**
1906 Association Drive, Reston, VA 20191-1593
phone: 703-620-9840, fax: 703-476-2970
http://www.nctm.org

**National Academy of Sciences, National Research Council (NAS)**
2102 Constitution Avenue, NW, Washington, DC 20418
phone: 202-334-2000
http://www.nas.edu/nrc

**National Council of Teachers of English (NCTE)**
1111 West Kenyon Road, Urbana, IL, 61801
phone: 217-328-3870 or 800-369-6283, fax: 217-328-9645
http://www.ncte.org

**International Reading Association**
http://www.reading.org

**National Council for the Social Studies (NCSS)**
3501 Newark Street, NW, Washington, DC 20016
phone: 800-653-0812 (publications)
http://www.ncss.org

**National Center for History in the Schools, UCLA (310-825-8388)**

**Center for Civic Education**
5146 Douglas Fir Road, Calabassas, CA 91302-1467
phone: 818-591-9321, fax: 818-591-9330
http://www.civiced.org
Section 3

OTHER STANDARDS RESOURCES

U.S. Department of Labor
Employment and Training Administration
O*NET The Occupational Information Network
Training Technology Resource Center

U.S. Department of Education
Goals 2000
Academic & Skill Standards

National School-to-Work Office
400 Virginia Avenue SW, Room 210, Washington, DC 20024
phone: 202-401-6222 or 800-251-7236

National Education Goals Panel
1255 22nd Street, NW Suite 502, Washington, DC 20027
fax: 202-632-0957 or 202-632-1032
The National Education Goals Panel (NEGP) is an independent executive branch agency of the federal government created in July, 1990 by the Goals 2000: Educate America Act. The Panel is a bipartisan body that includes eight governors, four members of Congress, four state legislators, and two administration officials. In addition to reporting on national and state progress toward the National Education Goals, the Panel has sponsored an initiative called Goals 3-4-5 Implementation that focuses on student achievement, teacher education and training, and high achievement in math and science. The Panel has formed an advisory group, commissioned papers to examine progress toward implementation, and formed partnerships with organizations nationwide. Additional information about this project, the commissioned papers, and links to the partnership organizations are available on the NEGP web site.

National PTA
phone: 312-670-6782
The National PTA has worked with National Education Goals Panel to develop Parent Involvement Standards.

Eisenhower National Clearinghouse for Mathematics and Science Education
phone: 800-362-4448 (catalog)
The Office of Educational Research and Improvement’s clearinghouse for K-12 curriculum materials and resource in mathematics and science education.

Developing Educational Standards
An annotated list of Internet sites with K-12 educational standards maintained by the Putnam Valley Schools, Putnam, NY. This site includes a thorough selection of standards related websites and is sorted by government agencies, organizations, newspapers, magazines, and standards and frameworks by subject area and by state.

New Standards Project
A joint project of the National Center on Education and the Economy, a non-profit in Washington, DC and the University of Pittsburgh’s Learning Research and Development
Center to develop an internationally benchmarked system of standards for English/language arts, math, science, and applied learning at the elementary, middle, and high school levels.

International Society for Technology in Education (ISTE)  
1787 Agate Street, Eugene, OR 97403-1923  
http://www.iste.org  
phone: 541-346-4414, fax: 541-346-4890

A teacher-based nonprofit organization in the field of education technology whose mission is to help K-12 classroom teachers and administrators share effective methods for enhancing student learning through the use of new classroom technologies. ISTE recently released a set of national standards for student technology skills which includes a list of competencies that student should develop by the time they enter grades 2, 5, 8, and 12.

Learning First Alliance  
http://www.learningfirst.org

An alliance of major national educational organizations dedicated to improving student learning in America’s public schools. The Alliance’s goals include ensuring that high academic expectations are held for all students, ensuring a positive and supportive place of learning for all students, and engaging parents and community members in helping students achieve high academic expectations.

Institute for Educational Leadership  
http://www.iel.org

1001 Connecticut Avenue NW, Suite 310, Washington, DC 20036  
phone: 202-822-8405, fax: 202-872-4050

IEL’s mission is to improve individual lives and society by strengthening educational opportunities for children and youth.

Vocational Technical Education Consortium of the States (V-TECS)  
1866 Southern Lane, Decatur, GA 30033  
http://www.mindspring.com/~vtecs/  
phone: 404-679-4501, ext. 543 or 800-248-7701, fax: 404-679-4556

Develops industry guides and curriculum frameworks, standards, and assessment components based on the requirements of industry. V-TECS has published skill standards for Administrative Support Occupations and Heating, Air-conditioning, and Refrigeration Technicians.

Integrated System for Workforce Education Curricula (ISWEC)  
Center for Occupational Research and Development (CORD)  
Walt Edling  
601 Lake Air Drive, Waco, TX 76710-5841  
phone: 800-972-2766  
email: wedling@cord.org

A collaborative project with CORD and many states to develop a system of integrated curricula and teaching methods including career clusters, standards, assessment, and an integrated curriculum framework. CORD also sponsors the National Tech Prep Network (http://www.cord.org/ntpn.htm) and the Tech Prep/School-to-Work Index and Improvement Program, an evaluation program developed with the Gallup Organization as a tool for local and regional Tech Prep and School-to-Work leaders to use in identifying and evaluating components of a successful program or system. (http://www.cord.org/stw1.htm).
SCANS2000 Program
Arnold Packer
Johns Hopkins University Institute for Policy Studies
Wyman Park Building, 5th Floor, 3400 North Charles Street, Baltimore, MD 21218
fax: 410-516-4775
Interdisciplinary research group with projects related to school-to-work and education reform. Programs include SCANS and Assessment, SCANS and the Arts, SCANS and Math Education, SCANS and Community Colleges, SCANS and Middle Schools, SCANS and Work-based Learning, and SCANS and Standards (WorkPlus Certificate).

Council of Chief State School Officers
State Collaborative on Assessment and Student Standards (SCASS)
Edward Roever
One Massachusetts Avenue, NW, Suite 700, Washington, DC 20001-1431
phone: 202-408-5505
The CCSSO is sponsoring a project designed to assist states as they develop student standards and assessments. The project supports an assessment consortium where state curriculum, assessment, and content specialists develop frameworks in various content areas (currently literacy, the arts, guidelines for performance assessment, and workplace readiness). The project also supports the development of standards and assessments through pooled resources and effort among consortium states and will be linked to national standards in each area.

National Governors Association
Center for Best Practices (Workforce Development)
Employment and Social Services Division
Evelyn Ganzglass
444 North Capitol Street, Suite 267, Washington, DC 20001-1512
phone: 202-624-5400
The Employment and Social Services Division works with states to identify, share, and implement best practices in their welfare and workforce development systems. The web site includes information about these programs and access to various NGA publications.

Achieve, Inc.
Achieve is a non-profit organization whose mission is to assist Governors and business leaders in their efforts to improve student achievement to world class levels through the development and implementation of high academic standards, assessments, and accountability systems and the effective use of technology to achieve standards. The organization’s web site supports a National Clearinghouse database for researching standards-based education reform which includes statements of educational standards produced by states and national professional organizations.

American Vocational Association
1410 King Street, Alexandria, VA 22314
phone: 800-826-9972
Center for Research on Evaluation, Standards, and Student Testing
(CRESST)  http://www.cse.ucla.edu
University of California at Los Angeles, 1339 Moore Hall, 405 Hilgard Avenue,
Los Angeles, CA 90024
phone: 310-206-1530
An Office of Educational Research and Improvement-sponsored consortium that works
with state and local partners in providing information about improving assessment and
instructional practices.
Teacher Licensing and Professional Development
Council of Chief State School Officers  http://www.ccsso.org/intasc.html
Interstate New Teacher Assessment and Support Consortium (INTASC)
Jean Miller, Director
One Massachusetts Avenue, NW, Suite 700, Washington, DC 20001-1431
phone: 202-336-7048
INTASC is a consortium of state education agencies, higher education institutions, and national educational organizations dedicated to the reform of the education, licensing, and on-going professional development of teachers. Created in 1987, INTASC's primary constituency is state education agencies responsible for teaching licensing and professional development. The consortium's mission is to promote standards-based reform through the development of model standards and assessments for beginning teachers.

Certification of Advanced Teaching Skill and Accomplishment
National Board for Professional Teaching Standards (NBPTS)
26555 Evergreen Road, Suite 400, Southfield, MI 48076  http://www.nbpts.org
phone: 248-351-4444, fax: 298-351-4170
NBPTS is an independent, nonprofit, nonpartisan organization governed by a 63 member board of directors whose mission is to establish high and rigorous standards for what accomplished teachers should know and be able to do; to develop and operate a national, voluntary system to assess and certify teacher who meet these standards; and to advance related education reforms for the purpose of improving student learning in American schools.

Accreditation of Schools, Colleges, and Departments of Education
National Council for Accreditation of Teacher Education
2010 Massachusetts Avenue NW, Suite 500, Washington, DC 20036-1023  http://www.ncate.org
phone: 202-466-7496, fax: 202-296-6620
NCATE is a coalition of 33 specialty professional associations of teachers, teacher educators, content specialists, and local and state policy makers which through the process of professional standards-based accreditation of schools, colleges, and departments of education works to ensure the quality of teaching and teacher preparation. NCATE supports a State Relations Initiative to provide several ways for the organization to collaborate with the States. NCATE has 41 partnerships with states to conduct joint reviews of schools of education. A State Partnership Directory is provided on the organization's web site.
Section 5
VOCATIONAL STUDENT ORGANIZATIONS

DECA
1908 Association Drive, Reston, VA 20191-1594
http://www.deca.org
phone: 703-860-5000, fax: 703-860-4013
A national association of marketing students that provides teachers and members with educational and leadership development activities to merge with the education classroom instructional program.

Technology Student Association (TSA)
1914 Association Drive, Reston, VA 20191-1538
http://www.tsawww.org
phone: 703-860-9000, fax: 703-758-4852
A national association of elementary, middle, and high school technology education students.

FHA/HERO
1910 Association Drive, Reston, VA 20191-1584
http://www.fhahero.org
phone: 703-476-4900, fax: 800-636-8646
A national association with 230,000 members whose goal is to build strong leaders in family, career, and community.

National FFA
6060 FFA Drive, Indianapolis, IN 46268-0960
http://www.ffa.org
phone: 317-802-6060, fax: 317-802-6061
A national association with 450,000 members who are developing leadership, personal growth, and career success through agricultural education. The web site also includes links to other organizations including http://www.agriculture.com which includes a Teachers Workroom and the National Association of Agricultural Educators (http://www.naae.org).

Vocational Industrial Clubs of America (VICA)
http://www.vica.org
P.O. Box 3000, Leesburg, VA 20177-0300
phone: 703-777-8810, fax: 703-777-8999
A national organization serving nearly 250,000 high school and college students and professional members who are enrolled in training programs in technical, skilled, and service occupations, including health occupations. Web site includes links to the Skills USA Championships.

Future Business Leaders of America-Phi Beta Lambda (FBLA-PBL)
1912 Association Drive, Reston, VA 20191-1591
http://www.fbla-pbl.org
phone: 703-860-3334, fax: 703-758-0749
A national organization of students to develop leadership in business, government, and communities. Web site also includes links to the National Business Education Association (http://nbea.org) and the Business Professionals of America (http://www.bpa.org).
A national association of vocational students whose mission is to promote career opportunities in the health care industry and to enhance the delivery of quality health care to all people.
BIBLIOGRAPHY


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