



Name _____

Learner ID _____

School/College/University _____

SAMPLE

Agriculture, Food and Natural Resources

Career Cluster Plan of Study for ► Learners ► Parents ► Counselors ► Teachers/Faculty

This Career Cluster Plan of Study (based on the Agriculture, Food and Natural Resources Career Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. *This Plan of Study, used for learners at an educational institution, should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses Other Electives Recommended Electives Learner Activities	*Career and Technical Courses and/ or Degree Major Courses for Agriculture, Food and Natural Resources	SAMPLE Occupations Relating to This Career Cluster
SECONDARY	Interest Inventory Administered and Plan of Study Initiated for all Learners							
	9	English/ Language Arts I	Algebra I	Earth or Environmental Science	State History Civics	All plans of study should meet local and state high school graduation requirements and college entrance requirements. Supervised Agricultural Experience (SAE) and participation in appropriate FFA activities support and reinforce classroom and laboratory learning and should be a requirement for all students.	<i>Introduction to Agriculture, Food and Natural Resources</i> : This is a core course for the Agriculture, Food and Natural Resources Career Cluster that builds a knowledge base and technical skills in all aspects of the industry. Learners will be exposed to a broad range of agriculture, food and natural resources careers and Cluster Foundation Knowledge and Skills. This may be taught as a career exploration course in conjunction with other foundation Career Cluster courses.	Occupations Requiring Postsecondary Education ► Agricultural Chemical Dealer ► Aquaculturalist ► Bank/Loan Office ► Environmental Compliance-Assurance Manager ► Equine Manager ► Farm Manager ► Health and Safety Sanitarian ► Meat Cutter-Meat Grader ► Park Manager ► Produce Buyer ► Recycling Technician ► Wildlife Manager
	10	English/ Language Arts II	Geometry	Biology	U.S. History			
	11	English/ Language Arts III	Algebra II or other math course	<i>Dependent on chosen pathway</i>	World History			
	College Placement Assessments-Academic/Career Advisement Provided							
	12	English/ Language Arts IV	<i>Dependent on chosen pathway</i>	<i>Dependent on chosen pathway</i>				
Articulation/Dual Credit Transcribed-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes.								
POSTSECONDARY	Year 13	English Composition	Algebra	<i>Dependent on chosen pathway</i>	American Government	All plans of study need to meet learner's career goals with regard to required degrees, licenses, certifications or journey worker status. Certain local student organization activities may also be important to include.	Continue courses pertinent to the pathway selected.	Occupations Requiring Baccalaureate Degree ► Agricultural Educator ► Botanist ► Ecologist ► Environmental Engineer ► Fish and Game Officer ► Plant Pathologist ► Veterinarian
	Year 14	Speech/ Oral Communication	<i>Dependent on chosen pathway</i>	<i>Dependent on chosen pathway</i>	American History Geography			
	Year 15	Technical Writing	Statistics	<i>Dependent on chosen pathway</i>	<i>Dependent on chosen pathway</i>			
	Year 16	Continue courses in the area of specialization.						



SAMPLE

Architecture and Construction: Construction

Career Pathway Plan of Study for ► Learners ► Parents ► Counselors ► Teachers/Faculty

This Career Pathway Plan of Study (based on the Construction Pathway of the Architecture and Construction Career Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. *This Plan of Study, used for learners at an educational institution, should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses Other Electives Recommended Electives Learner Activities	*Career and Technical Courses and/or Degree Major Courses for Construction Pathway	SAMPLE Occupations Relating to This Pathway	
Interest Inventory Administered and Plan of Study Initiated for all Learners									
SECONDARY	9	English/ Language Arts I	Algebra I	Earth or Life or Physical Science	State History Civics or World History	All plans of study should meet local and state high school graduation require- ments and college entrance requirements. Certain local student organization activities such as SkillsUSA are also important includ- ing public speaking, record keeping and work-based experi- ences.	• Introduction to the Built Environment	▶ Carpenter ▶ Code Official ▶ Concrete Finisher ▶ Construction Engineer ▶ Construction Foreman/Manager ▶ Construction Inspector ▶ Contractor ▶ Design Builder ▶ Drywall Installer ▶ Electrician ▶ Electronic Systems Technician ▶ Equipment and Material Manager ▶ General Contractor/Builder ▶ Heating, Ventilation, Air Conditioning and Refrigeration Mechanic ▶ Mason ▶ Painter ▶ Paperhanger ▶ Plumber ▶ Project Estimator ▶ Project Inspector ▶ Project Manager ▶ Roofer ▶ Safety Director ▶ Sheet Metal Worker ▶ Specialty Contractor ▶ Superintendent ▶ Tile and Marble Setter	
	10	English/ Language Arts II	Geometry	Biology	U.S. History		• The Language of Architecture and Construction • Information Technology Applications		
	11	English/ Language Arts III Technical Writing	Algebra II	Physics	Economics Psychology		• Safety, Health and the Workplace Environment • Principles of Construction		
	College Placement Assessments-Academic/Career Advisement Provided								
	12	English/ Language Arts IV	Construction Math or Statistics	Chemistry			• Applications in Construction		
Articulation/Dual Credit Transcribed-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes.									
POSTSECONDARY	Year 13	English Composition English Literature	Algebra Trigonometry	Physics	American Government or History Psychology/ Interpersonal Skills	All plans of study need to meet learners' career goals with regard to required degrees, li- censes, certifications or journey worker status. Certain local student organization activities may also be important to include.	• Advanced Plan Reading • Construction Ethics and Legal Issues		
	Year 14	Speech/ Oral Communication	Business Accounting Pre-Calculus or Calculus	Environmental Science	Sociology Business Law		• Technical Applications in the Construction Industry • Construction Internship		
	Year 15	Continue courses in the area of specialization.					• Continue Courses in the Area of Specialization		
	Year 16						• Complete Construction Major (4-Year Degree Program)		

SAMPLE








✓ Tech for Success (ms) is suggested for all
-pair w/ comp applications

The Sixteen Career Clusters



1	 Agriculture, Food & Forestry	The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.
2	 Architecture & Construction	Careers in designing, planning, managing, building, and maintaining the built environment.
3	 Arts & A/V Technology & Communications	Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.
4	 Business Management & Administration	Business Management and Administration careers encompass planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Business Management and Administration career opportunities are available in every sector of the economy.
5	 Education & Training	Planning, managing, and providing education and training services, and related learning support services.
6	 Finance	Planning, services for financial and investment planning, banking, insurance, and business financial management.
7	 Government & Public Administration	Executing governmental functions to include governance; national security; foreign service; planning; revenue and taxation; regulation; and management and administration at the local, state, and federal levels.
8	 Health Science	Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.
9	 Hospitality & Tourism	Hospitality and Tourism encompasses the management, marketing and operations of restaurants and other food services, lodging, attractions and recreation events, and travel-related services.

Career Clusters cont.

10	 Human Services	Preparing individuals for employment in career pathways that relate to families and human needs.
11	 Information Technology	Building linkages in IT occupations framework for entry-level, technical, and professional careers related to the design, development, support and management of hardware, software, multimedia, and systems integration services.
12	 Public Safety, Law, Corrections & Security	Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.
13	 Manufacturing	Planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance, and manufacturing/process engineering.
14	 Marketing	Planning, managing, and performing marketing activities to reach organizational objectives.
15	 Science, Technology, Engineering & Mathematics	Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering), including laboratory and testing services, and research and development services.
16	 Transportation, Distribution & Logistics	Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment, and facility maintenance.

My top three Career Clusters of interest are:

1. _____
2. _____
3. _____

For more information, check with a career counselor at your high school, career technical center, higher education institution, or one-stop career center.



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SAMPLE

Arts, Audio/Video Technology and Communications

Career Cluster Plan of Study for ► Learners ► Parents ► Counselors ► Teachers/Faculty

This Career Cluster Plan of Study (based on the Arts, Audio/Video Technology and Communications Career Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. *This Plan of Study, used for learners at an educational institution, should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.

EDUCATION LEVELS		GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses Other Electives Recommended Electives Learner Activities	*Career and Technical Courses and/ or Degree Major Courses for Arts, Audio/Video Technology and Communications	SAMPLE Occupations Relating to This Career Cluster
Interest Inventory Administered and Plan of Study Initiated for all Learners									
SECONDARY	9	English/ Language Arts I	Algebra I	Dependent on chosen pathway	World History	All plans of study should meet local and state high school graduation requirements and college entrance requirements. Certain local student organization activities are also important including public speaking, record keeping and work-based experiences.	**Introduction to Arts, Audio/Video Technology and Communications **Information Technology Applications	► Actor ► Audio-Video Designer and Engineer ► Broadcast Technician ► Commercial Artist ► Computer Animator ► Curator/Gallery Manager ► Director and Coach ► Fashion Designer ► Journalist ► Lithographer ► Musician ► Printing Equipment Operator ► Telecommunication Technician ► Videographer ► Web Page Designer	
	10	English/ Language Arts II	Geometry	Dependent on chosen pathway	U.S. History		Continue courses pertinent to the pathway selected.		
	11	English/ Language Arts III	Dependent on chosen pathway	Physics	Political Science Economics				
	College Placement Assessments-Academic/Career Advisement Provided								
	12	English/ Language Arts IV	Dependent on chosen pathway	Dependent on chosen pathway	Dependent on chosen pathway				
Articulation/Dual Credit Transcribed-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes.									
POSTSECONDARY	Year 13	English Composition English Literature	Dependent on chosen pathway	Chemistry	American Govt. Psychology	All plans of study need to meet learner's career goals with regard to required degrees, licenses, certifications or journey worker status. Certain local student organization activities may also be important to include.	Continue courses pertinent to the pathway selected.		
	Year 14	Speech Oral Communication	Computer Applications	Dependent on chosen pathway	Dependent on chosen pathway				
	Year 15	Continue courses in the area of specialization.							
	Year 16								

**See course descriptions on page 2.

SAMPLE



Name _____
 Learner ID _____
 School/College/University _____

SAMPLE

Business, Management and Administration

Career Cluster Plan of Study for ► Learners ► Parents ► Counselors ► Teachers/Faculty

This Career Cluster Plan of Study (based on the Business, Management and Administration Career Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. *This Plan of Study, used for learners at an educational institution, should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses Other Electives Recommended Electives Learner Activities	*Career and Technical Courses and/ or Degree Major Courses for Business, Management and Administration	SAMPLE Occupations Relating to This Career Cluster
Interest Inventory Administered and Plan of Study Initiated for all Learners								
SECONDARY	9	English/ Language Arts I	Algebra I or Geometry	Earth or Life or Physical Science or Biology	State History Geography	All plans of study should meet local and state high school graduation requirements and college entrance requirements. Certain local student organization activities are also important including public speaking, record keeping and work-based experiences.	** <i>Business Essentials</i> ** <i>Business Technology Applications</i>	<ul style="list-style-type: none">▶ Administrative Assistant▶ Advertising Sales Person▶ Auditor▶ Business Consultant▶ Certified Public Accountant▶ Corporate Trainer▶ E-Commerce Analyst▶ Entrepreneur▶ Facilities Manager▶ Finance Director▶ Human Resources Manager▶ Investment Executive▶ Marketing Analyst▶ Medical Transcriptionist▶ Office Manager▶ OSHA/ADA Compliance Officer▶ Personnel Recruiter▶ Public Relations Manager▶ Sales Representative▶ Wholesale and Retail Buyer
	10	English/ Language Arts II	Geometry or Algebra II	Biology or Chemistry	U.S. History		Continue courses pertinent to the pathway selected.	
	11	English/ Language Arts III	Pre-Calculus or Algebra II	Chemistry or Physics	World History Psychology			
	College Placement Assessments-Academic/Career Advisement Provided							
	12	English/ Language Arts IV	Pre-Calculus or Calculus or Trigonometry or Statistics	Physics or other science course	Government Economics			
Articulation/Dual Credit Transcribed-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes.								
POSTSECONDARY	Year 13	English Composition English Literature	Algebra or Calculus	Lab Science	Economics Psychology	All plans of study need to meet learners' career goals with regard to required degrees, licenses, certifications or journey worker status. Certain local student organization activities may also be important to include.	Continue courses pertinent to the pathway selected.	
	Year 14	Speech/ Oral Communication Technical Writing	<i>Dependent on chosen pathway</i>		<i>Dependent on chosen pathway</i>			
	Year 15	Continue courses in the area of specialization.						
	Year 16							

NCTEF

**See course descriptions on page 2.

SAMPLE



Name _____

Learner ID _____

School/College/University _____

SAMPLE

Education and Training

Career Cluster Plan of Study for ► Learners ► Parents ► Counselors ► Teachers/Faculty

This Career Cluster Plan of Study (based on the Education and Training Career Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. *This Plan of Study, used for learners at an educational institution, should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.

course titles and appropriate high school graduation requirements as well as college entrance requirements.								
EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses Other Electives Recommended Electives Learner Activities	*Career and Technical Courses and/ or Degree Major Courses for Education and Training	SAMPLE Occupations Relating to This Career Cluster
Interest Inventory Administered and Plan of Study Initiated for all Learners								
SECONDARY	9	English/ Language Arts I	Algebra I	Earth or Life or Physical Science	State History Civics	All plans of study should meet local and state high school graduation requirements and college entrance requirements. Certain local student organization activities are also important including public speaking, record keeping and work-based experiences.	**Career Exploration in Education and Training **Information Technology Applications	<ul style="list-style-type: none">► Administrator► Assessment Specialist► CareerTech Administrator► Child Care Worker► Clinical Psychologist► Coach► College/University Faculty► Counselor► Curriculum Developer► Elementary Teacher► High School Teacher► Middle School Teacher► Principal► Speech-Language Pathologist
	10	English/ Language Arts II	Geometry	Biology	U.S. History		**Human Growth and Development	
	11	English/ Language Arts III	Algebra II	Chemistry	World History Economics		**Fundamentals of Education Professions ** Parenting and/or Child Development	
	College Placement Assessments-Academic/Career Advisement Provided							
	12	English/ Language Arts IV	Statistics or other math course	Physics	Psychology or Sociology American Govt.		**Applications of Education Professions	
Articulation/Dual Credit Transcribed-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes.								
POSTSECONDARY	Year 13	English Composition English Literature	Algebra	Chemistry	Psychology American History	All plans of study need to meet learners' career goals with regard to required degrees, licenses, certifications or journey worker status. Certain local student organization activities may also be important to include.	**Introduction to Education **Introduction to the Exceptional Learner	
	Year 14	Speech/ Oral Communication	Computer Applications	Biological Science Physical Science	Geography and Educational Psychology		**Diversity in Education and Training **Instructional/Educational Technology	
	Year 15	Technical Communication	Tests and Measurements		Political Science Sociology		**Managing the Learning Environment **Methods of Teaching and Learning Continue courses pertinent to the pathway selected.	
	Year 16+		Dependent on chosen pathway		Economics Philosophy of Educ.		Complete teaching/training major. (Fulfill student teaching requirement as needed.)	

**See course descriptions on pages 2 and 3.

SAMPLE



Name _____

Learner ID _____

School/College/University _____

SAMPLE

Finance

Career Cluster Plan of Study for ► Learners ► Parents ► Counselors ► Teachers/Faculty

This Career Cluster Plan of Study (based on the Finance Career Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. *This Plan of Study, used for learners at an educational institution, should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.

Appropriate high school graduation requirements as well as college entrance requirements.

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses Other Electives Recommended Electives Learner Activities	*Career and Technical Courses and/ or Degree Major Courses for Finance	SAMPLE Occupations Relating to This Career Cluster	
Interest Inventory Administered and Plan of Study Initiated for all Learners									
SECONDARY	9	English/ Language Arts I	Algebra I or Geometry	Earth or Life or Physical Science or Biology	State History Geography	All plans of study should meet local and state high school graduation requirements and college entrance requirements. Certain local student organization activities are also important including public speaking, record keeping and work-based experiences.	**Business Essentials **Business Technology Applications	<ul style="list-style-type: none">► Abstractor► Accountant► Actuary► Bill and Account Collector► Commodities Representative► Controller► Credit Analyst► Debt Counselor► Economist► Financial Planner► Foreign Exchange Manager► Fund Raiser► Insurance Broker► Internal Auditor► Loan Officer► Non-Profit Manager► Tax Examiner► Title Researcher and Examiner► Treasurer► Trust Officer► Underwriter	
	10	English/ Language Arts II	Geometry or Algebra II	Biology or Chemistry	U.S. History		**Business Finance		
	11	English/ Language Arts III	Pre-Calculus or Algebra II	Chemistry or Physics	World History Psychology		**Accounting		
	College Placement Assessments-Academic/Career Advisement Provided						Continue courses pertinent to the pathway selected.		
	12	English/ Language Arts IV	Pre-Calculus or Calculus or Trigonometry or Statistics	Physics or other science course	Government Economics				
Articulation/Dual Credit Transcribed-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes.									
POSTSECONDARY	Year 13	English Composition English Literature	Algebra or Calculus	Lab Science	Economics Psychology	All plans of study need to meet learners' career goals with regard to required degrees, licenses, certifications or journey worker status. Certain local student organization activities may also be important to include.	Continue courses pertinent to the pathway selected.		
	Year 14	Speech/ Oral Communication Technical Writing			Sociology Public Policy				
	Year 15	Continue courses in the area of specialization.							
	Year 16								

**See course descriptions on page 2.

SAMPLE



Name _____
 Learner ID _____
 School/College/University _____

SAMPLE

Government and Public Administration

Career Cluster Plan of Study for ► Learners ► Parents ► Counselors ► Teachers/Faculty

This Career Cluster Plan of Study (based on the Government and Public Administration Career Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. *This Plan of Study, used for learners at an educational institution, should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses Other Electives Recommended Electives Learner Activities	*Career and Technical Courses and/ or Degree Major Courses for Government and Public Administration	SAMPLE Occupations Relating to This Career Cluster	
Interest Inventory Administered and Plan of Study Initiated for all Learners									
SECONDARY	9	English/ Language Arts I	Algebra I	Earth or Life or Physical Science	State History Civics	All plans of study should meet local and state high school graduation requirements and college entrance requirements. Certain local student organization activities are also important including public speaking, record keeping and work-based experiences.	**World Concepts and Themes **Geography	► Ambassador ► Bank Examiner ► City Manager ► Combat Control Officer ► Commissioner ► Cryptographer ► Election Supervisor ► Elected Official ► Foreign Service Officer ► Immigration Officer ► Intelligence Analyst ► Internal Revenue Investigator ► Lobbyist ► National Security Advisor ► Planner ► Policy Advisor ► Tax Policy Analyst	
	10	English/ Language Arts II	Geometry	Biology	Dependent on chosen pathway		**Information Technology Applications		
	11	English/ Language Arts III Foreign Language I	Dependent on chosen pathway	Dependent on chosen pathway	Dependent on chosen pathway		**American Government and Comparative Political Systems		
	College Placement Assessments-Academic/Career Advisement Provided								
	12	English/ Language Arts IV Foreign Language II	Dependent on chosen pathway	Physics or Geospatial Information Systems	Dependent on chosen pathway		**Principles of Governance and Public Administration		
Articulation/Dual Credit Transcribed-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes.									
POSTSECONDARY	Year 13	English Composition Foreign Language I	Dependent on chosen pathway	Chemistry Environmental Science	Dependent on chosen pathway	All plans of study need to meet learners' career goals with regard to required licenses, certifications or journey worker status. Certain local student organization activities may also be important to include.	Continue courses pertinent to the pathway selected.		
	Year 14	Speech/ Oral Communication Foreign Language II	Dependent on chosen pathway	Biological Science or Botany	Dependent on chosen pathway				
	Year 15		Dependent on chosen pathway	Dependent on chosen pathway	Dependent on chosen pathway				
	Year 16	Continue courses in the area of specialization.							

NCTEF

**See course descriptions on page 2.

SAMPLE



Name _____

Learner ID _____

School/College/University _____

SAMPLE

Hospitality and Tourism

Career Cluster Plan of Study for ► Learners ► Parents ► Counselors ► Teachers/Faculty

This Career Cluster Plan of Study (based on the Hospitality and Tourism Career Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. *This Plan of Study, used for learners at an educational institution, should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses Other Electives Recommended Electives Learner Activities	*Career and Technical Courses and/ or Degree Major Courses for Hospitality and Tourism	SAMPLE Occupations Relating to This Career Cluster
Interest Inventory Administered and Plan of Study Initiated for all Learners								
SECONDARY	9	English/ Language Arts I	Algebra I	Earth or Life or Physical Science	State History Civics	All plans of study should meet local and state high school graduation requirements and college entrance requirements. Certain local student organization activities are also important including public speaking, record keeping and work-based experiences.	** <i>Introduction to Hospitality and Tourism</i> ** <i>Information Technology Applications</i>	<ul style="list-style-type: none">► Baker► Bartender► Casino Manager► Caterer► Concierge► Convention Services Manager► Director of Operations - Lodging► Director of Tourism Development► Event Planner► Executive Chef► Facilities Manager► Maitre d'► Museum Director► Reservations Manager► Restaurant Owner/Manager► Sports Promoter► Theme Park Manager► Tour and Travel Guide► Travel Agent► Wine Steward
	10	English/ Language Arts II	Geometry	Biology	U.S. History		Continue courses pertinent to the pathway selected.	
	11	English/ Language Arts III	Algebra II	Chemistry	World History Economics			
	College Placement Assessments-Academic/Career Advisement Provided							
	12	English/ Language Arts IV	Research or Statistics or Finance/Accounting	Physics	Psychology Geography			
Articulation/Dual Credit Transcribed-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes.								
POSTSECONDARY	Year 13	English Composition English Literature	Algebra Statistics	<i>Dependent on chosen pathway</i>	Political Science Economics	All plans of study need to meet learners' career goals with regard to required degrees, licenses, certifications or journey worker status. Certain local student organization activities may also be important to include.	Continue courses pertinent to the pathway selected.	
	Year 14	Speech/ Oral Communication	<i>Dependent on chosen pathway</i>	<i>Dependent on chosen pathway</i>	Sociology Psychology			
	Year 15	Continue courses in the area of specialization.						
	Year 16							

** See course descriptions on page 2.



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SAMPLE

Health Science

Career Cluster Plan of Study for ► Learners ► Parents ► Counselors ► Teachers/Faculty

This Career Cluster Plan of Study (based on the Health Science Career Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. *This Plan of Study, used for learners at an educational institution, should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses Other Electives Recommended Electives Learner Activities	*Career and Technical Courses and/ or Degree Major Courses for Health Science	SAMPLE Occupations Relating to This Career Cluster	
Interest Inventory Administered and Plan of Study Initiated for all Learner:									
SECONDARY	9	English/ Language Arts I	Algebra I	Dependent on chosen pathway	State History Civics	All plans of study should meet local and state high school graduation requirements and college entrance requirements. Certain local student organization activities are also important including public speaking, record keeping and work-based experiences. A foreign language is recommended.	**Health Science I: Introduction to Health Science **Information Technology Applications	Occupations Requiring Less than Baccalaureate Degree ► Dental Assistant/Hygienist ► EMT/Paramedic ► Health Information Coder ► Home Health Aide ► Lab Technician ► Phlebotomist ► Radiographer ► Registered Nurse Occupations Requiring Baccalaureate Degree ► Athletic Trainer ► Biochemist ► Biostatistician ► Geneticist ► Industrial Hygienist ► Nutritionist ► Occupational Therapist ► Physician (MD/DO) ► Physician's Assistant ► Psychologist ► Radiologist ► Research Scientist ► Speech/Language Pathologist ► Toxicologist ► Veterinarian	
	10	English/ Language Arts II	Dependent on chosen pathway	Dependent on chosen pathway	U.S. History		**Health Science II: Health, Safety and Ethics in the Health Environment		
	11	English/ Language Arts III	Dependent on chosen pathway	Dependent on chosen pathway	World History Sociology		**Health Science III: Employment in Health Occupations		
	College Placement Assessments-Academic/Career Advisement Provided								
	12	English/ Language Arts IV	Dependent on chosen pathway	Dependent on chosen pathway	Psychology Economics		Continue courses pertinent to the pathway selected.		
Articulation/Dual Credit Transcribed-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes.									
POSTSECONDARY	Year 13	English Composition	Dependent on chosen pathway	Dependent on chosen pathway	American Govt. Psychology	All plans of study need to meet learners' career goals with regard to required degrees, licenses, certifications or journey worker status. Certain local student organization activities may also be important to include. Work-based learning is an integral part of this Career Cluster.	Continue courses pertinent to the pathway selected.		
	Year 14	Speech/ Oral Communication Technical Writing	Dependent on chosen pathway	Dependent on chosen pathway	American History Sociology				
	Year 15	Continue courses in the area of specialization.							
	Year 16								



** See course descriptions on page 2.

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Human Services

Career Cluster Plan of Study for ► Learners ► Parents ► Counselors ► Teachers/Faculty

This Career Cluster Plan of Study (based on the Human Services Career Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed with this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. *This Plan of Study, used for learners at an educational institution, should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses Other Electives Recommended Electives Learner Activities	*Career and Technical Courses and/ or Degree Major Courses for Human Services	SAMPLE Occupations Relating to This Career Cluster
Interest Inventory Administered and Plan of Study Initiated for all Learners								
SECONDARY	9	English/ Language Arts I	Algebra I	Earth or Life or Physical Science	State History Civics	All plans of study should meet local and state high school graduation requirements and college entrance requirements. Certain local student organization activities are also important including public speaking, record keeping and work-based experiences.	**Introduction to Human Services	<ul style="list-style-type: none">► Buyer► Certified Financial Planner► Community Service Director► Consumer Advocate► Cosmetologist► Director of Childcare Facility► Emergency and Relief Worker► Esthetician► Funeral Director► Licensed Professional Counselor► Market Researcher► Massage Therapist► Personal Fitness Trainer► School Counselor/Psychologist► Small Business Owner► Social Worker
	10	English/ Language Arts II	Geometry	Biology	U.S. History		**Information Technology Applications	
	11	English/ Language Arts III	Algebra II	Chemistry	World History Sociology		Continue courses pertinent to the pathway selected.	
	College Placement Assessments-Academic/Career Advisement Provided							
	12	English/ Language Arts IV	Dependent on chosen pathway	Dependent on chosen pathway	Psychology Economics or Personal Finance			
Articulation/Dual Credit Transcribed-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes.								
POSTSECONDARY	Year 13	English Composition	Algebra	Dependent on chosen pathway	American Govt. Psychology	All plans of study need to meet learners' career goals with regard to required degrees, licenses, certifications or journey worker status. Certain local student organization activities may also be important to include.	Continue courses pertinent to the pathway selected.	
	Year 14	Dependent on chosen pathway	Statistics	Dependent on chosen pathway	Dependent on chosen pathway			
	Year 15	Dependent on chosen pathway			Dependent on chosen pathway			
	Year 16	Continue courses in the area of specialization.						



Name _____
 Learner ID _____
 School/College/University _____

SAMPLE

Information and Technology

Career Cluster Plan of Study for ► Learners ► Parents ► Counselors ► Teachers/Faculty

This Career Cluster Plan of Study (based on the Information Technology Career Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. *This Plan of Study, used for learners at an educational institution, should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses Other Electives Recommended Electives Learner Activities	*Career and Technical Courses and/ or Degree Major Courses for Information and Technology	SAMPLE Occupations Relating to This Career Cluster
Interest Inventory Administered and Plan of Study Initiated for all Learners								
SECONDARY	9	English/ Language Arts I	Algebra I or Geometry	Earth or Life or Physical Science	World History	All plans of study should meet local and state high school graduation requirements and college entrance requirements. Certain local student organization activities are also important including public speaking, record keeping and work-based experiences.	**Introduction to Information Technology **Information Technology Applications	<ul style="list-style-type: none">► Animator► Database Administrator► Data Systems Designer► E-Business Specialist► Game Developer► Information Technology Engineer► Media Specialist► Network Administrator► Network Security Analyst► PC Support Specialist► Programmer► Software Applications Specialist► Systems Administrator► Telecommunications Network Technician► User Support Specialist► Virtual Reality Specialist► Web Architect/Designer
	10	English/ Language Arts II	Geometry or Algebra II	Biology	U.S. History		**Fundamentals of Computer Systems	
	11	English/ Language Arts III	Algebra II or Pre-Calculus or Trigonometry	Chemistry	Political Science Economics		Continue courses pertinent to the pathway selected. (Students are encouraged to have an internship/capstone experience to reinforce workplace skills.)	
	College Placement Assessments-Academic/Career Advisement Provided							
	12	English/ Language Arts IV Technical Reading	Dependent on chosen pathway	Applied Physics				
Articulation/Dual Credit Transcribed-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes.								
POSTSECONDARY	Year 13	English Composition English Literature	Calculus	Chemistry	American Govt. Psychology	All plans of study need to meet learners' career goals with regard to required degrees, licenses, certifications or journey worker status. Certain local student organization activities may also be important to include.	Continue courses pertinent to the pathway selected.	
	Year 14	Speech/ Oral Communication Technical Writing	Computer Applications	Biological Science Physics	American History Geography			
	Year 15	Continue courses in the area of specialization.						
	Year 16							

NCTEF

**See course descriptions on page 2.

SAMPLE



Name _____
 Learner ID _____
 School/College/University _____

SAMPLE

Law, Public Safety, Corrections and Security

Career Cluster Plan of Study for ► Learners ► Parents ► Counselors ► Teachers/Faculty

This Career Cluster Plan of Study (based on the Correction Services Pathway of the Law, Public Safety, Corrections and Security Career Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. *This Plan of Study, used for learners at an educational institution, should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.

Interest Inventory Administered and Plan of Study Initiated for all Learners									
SECONDARY	9	English/ Language Arts I	Algebra I	Earth or Life or Physical Science	State History Civics	All plans of study should meet local and state high school graduation requirements and college entrance requirements. Certain local student organization activities are also important including public speaking, record keeping and work-based experiences.	**Introduction to Law, Public Safety, Corrections and Security Careers	► Attorney ► Bomb Technician ► Corrections Officer ► Court Reporter ► Criminal Investigator ► EMT ► Federal Marshall ► Firefighter ► Gaming Surveillance Specialist ► Hazardous Materials Responder ► Loss Prevention Specialist ► Paralegal ► Park Ranger ► Police and Patrol Officer ► Probation/Parole Officer ► Public Information Officer ► Security Director ► Youth Services Worker	
	10	English/ Language Arts II	Geometry	Biology	U.S. History Psychology		**Information Technology Applications		
	11	English/ Language Arts III	Algebra II	Chemistry	Dependent on chosen pathway		Continue courses pertinent to the pathway selected.		
	College Placement Assessments-Academic/Career Advisement Provided								
	12	English/ Language Arts IV Technical Writing	Dependent on chosen pathway	Physics or Forensic Science	Dependent on chosen pathway				
Articulation/Dual Credit Transcribed-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes.									
POSTSECONDARY	Year 13	English Composition English Literature	Algebra	Chemistry	American Govt. Psychology	All plans of study need to meet learners' career goals with regard to required degrees, licenses, certifications or journey worker status. Certain local student organization activities may also be important to include. Physical Education courses and/or activities are critical in this career cluster.	Continue courses pertinent to the pathway selected.		
	Year 14	Speech/ Oral Communication	Computer Applications	Dependent on chosen pathway	Dependent on chosen pathway				
	Year 15				Dependent on chosen pathway				
	Year 16	Continue courses in the area of specialization.							



Name _____

Learner ID _____

School/College/University _____

SAMPLE

Manufacturing

Career Cluster Plan of Study for ► Learners ► Parents ► Counselors ► Teachers/Faculty

This Career Cluster Plan of Study (based on Manufacturing Career Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. *This Plan of Study, used for learners at an educational institution, should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses Other Electives Recommended Electives Learner Activities	*Career and Technical Courses and/ or Degree Major Courses for Manufacturing	SAMPLE Occupations Relating to This Career Cluster
Interest Inventory Administered and Plan of Study Initiated for all Learners								
SECONDARY	9	English/ Language Arts I	Algebra I	Earth or Life or Physical Science	State History Civics	All plans of study should meet local and state high school graduation requirements and college entrance requirements. Certain local student organization activities are also important including public speaking, record keeping and work-based experiences.	**Introduction to Manufacturing Occupations	<ul style="list-style-type: none">► Assembler► Boilermaker► Design Engineer► Environmental Engineer► Foundry Worker► Freight, Stock and Material Mover► Health and Safety Representative► Industrial Machinery Mechanic► Inspector► Labor Relations Manager► Logistician► Manufacturing Technician► Pattern and Model Maker► Production Manager► Quality Control Technician► Safety Engineer► SPC Coordinator► Tool and Diemaker► Traffic Manager► Welder
	10	English/ Language Arts II	Geometry	Biology	U.S. History		**Information Technology Applications	
	11	English/ Language Arts III	Algebra II	Chemistry	World History Economics		**Employment in Manufacturing Occupations	
	College Placement Assessments-Academic/Career Advisement Provided							
	12	English/ Language Arts IV	Trigonometry or Statistics or other math course	Physics	Psychology		**Applications in Manufacturing Technology	
Articulation/Dual Credit Transcribed-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes.								
POSTSECONDARY	Year 13	English Composition English Literature	Algebra	Chemistry Physics	American Govt. Psychology	All plans of study need to meet learners' career goals with regard to required degrees, licenses, certifications or journey worker status. Certain local student organization activities may also be important to include.	**Safety in the Workplace	
	Year 14	Speech/ Oral Communication	Computer Applications	Biological Science Physical Science	American History Geography		Continue courses pertinent to the pathway selected.	
	Year 15	Continue courses in the area of specialization.						
	Year 16						Complete Manufacturing Major (4-Year Degree Program)	



Name _____
 Learner ID _____
 School/College/University _____

SAMPLE

Marketing, Sales and Service

Career Cluster Plan of Study for ► Learners ► Parents ► Counselors ► Teachers/Faculty

This Career Cluster Plan of Study (based on the Marketing, Sales and Service Career Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. *This Plan of Study, used for learners at an educational institution, should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses Other Electives Recommended Electives Learner Activities	*Career and Technical Courses and/ or Degree Major Courses for Marketing, Sales and Service	SAMPLE Occupations Relating to This Career Cluster
Interest Inventory Administered and Plan of Study Initiated for all Learners								
SECONDARY	9	English/ Language Arts I	Algebra I or Geometry	Earth or Life or Physical Science or Biology	State History Geography	All plans of study should meet local and state high school graduation requirements and college entrance requirements. Certain local student organization activities are also important including public speaking, record keeping and work-based experiences.	**Business Essentials **Business Technology Applications	<ul style="list-style-type: none">► Copywriter/Designer► E-Commerce Director► Entrepreneur► Field Marketing Representative► Forecasting Manager► Interactive Media Specialist► Inventory Manager/Analyst► Logistics Manager► Merchandise Buyer► On-line Market Researcher► Public Relations Manager► Promotions Manager► Retail Marketing Coordinator► Sales Executive► Shipping/Receiving Clerk► Telemarketer► Trade Show Manager► Warehouse Manager► Webmaster
	10	English/ Language Arts II	Geometry or Algebra II	Biology or Chemistry	U.S. History		**Marketing	
	11	English/ Language Arts III	Pre-Calculus or Algebra II	Chemistry or Physics	World History Psychology		Continue courses pertinent to the pathway selected.	
	College Placement Assessments-Academic/Career Advisement Provided							
	12	English/ Language Arts IV	Pre-Calculus or Calculus or Trigonometry or Statistics	Physics or other science course	Government Economics			
Articulation/Dual Credit Transcribed-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes.								
POSTSECONDARY	Year 13	English Composition English Literature	Algebra or Calculus	Lab Science	Economics Psychology	All plans of study need to meet learners' career goals with regard to required degrees, licenses, certifications or journey worker status. Certain local student organization activities may also be important to include.	Continue courses pertinent to the pathway selected.	
	Year 14	Speech/ Oral Communication Technical Writing			Sociology Public Policy			
	Year 15	Continue courses in the area of specialization.						
	Year 16							

**See course descriptions on page 2.

Name _____

Learner ID _____

School/College/University _____

SAMPLE

Science, Technology, Engineering and Mathematics

Career Cluster Plan of Study for ► Learners ► Parents ► Counselors ► Teachers/Faculty

This Career Cluster Plan of Study (based on the Science, Technology, Engineering and Mathematics Career Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. *This Plan of Study, used for learners at an educational institution, should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses Other Electives Recommended Electives Learner Activities	*Career and Technical Courses and/ or Degree Major Courses for Science, Technology, Engineering and Mathematics	SAMPLE Occupations Relating to This Career Cluster
Interest Inventory Administered and Plan of Study Initiated for all Learners								
SECONDARY	9	English/ Language Arts I	Algebra I or Geometry	Biology	State History Civics	All plans of study should meet local and state high school graduation requirements and college entrance requirements. Certain local student organization activities are also important including public speaking, record keeping and work-based experiences.	Continue courses pertinent to the pathway selected.	<ul style="list-style-type: none">► Aerospace Engineer► Agricultural Engineer► Analytical Chemist► Anthropologist► Architectural Engineer► Astrophysicist► Biomedical Engineer► CAD Technician► Civil Engineer► Computer Programmer► Ecologist► Geologist► Geothermal Engineer► Math Teacher► Mathematician► Metallurgist► Statistician► Survey Technician► Zoologist
	10	English/ Language Arts II	Geometry or Algebra II	Chemistry	U.S. History		<i>Information Technology Applications:</i> Students will use technology tools to manage personal schedules and contact information, create memos and notes, prepare simple reports and other business communications, manage computer operations and file storage, and use electronic mail, Internet applications and GIS to communicate, search for and access information. Students will develop skills related to word processing, database management and spreadsheet applications.	
	11	English/ Language Arts III	Algebra II or Trigonometry Pre-Calculus or Statistics	Physics	World History World Geography			
	College Placement Assessments-Academic/Career Advisement Provided							
	12	English/ Language Arts IV	Trigonometry or Pre-Calculus/ Calculus or AP Calculus or Math Analysis	<i>Dependent on chosen pathway</i>	Economics Entrepreneurship			
Articulation/Dual Credit Transcribed-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes.								
POSTSECONDARY	Year 13	English Composition English Literature	Algebra or Trigonometry Calculus I Calculus II	Chemistry Physics	Psychology Global Issues	All plans of study need to meet learners' career goals with regard to required degrees, licenses, certifications or journey worker status. Certain local student organization activities may also be important to include.	Continue courses pertinent to the pathway selected.	
	Year 14	Speech/ Oral Communication Professional and Technical Writing	Introduction to Differential Equations Calculus III Statistics	<i>Dependent on chosen pathway</i>	American History Sociology Ethics and Legal Issues			
	Year 15	Continue courses in the area of specialization.						
	Year 16							



Name _____
 Learner ID _____
 School/College/University _____

SAMPLE

Transportation, Distribution and Logistics

Career Cluster Plan of Study for ► Learners ► Parents ► Counselors ► Teachers/Faculty

This Career Cluster Plan of Study (based on the Transportation, Distribution and Logistics Career Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. *This Plan of Study, used for learners at an educational institution, should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.

Customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.								
EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses Other Electives Recommended Electives Learner Activities	*Career and Technical Courses and/ or Degree Major Courses for Transportation, Distribution and Logistics	SAMPLE Occupations Relating to This Career Cluster
Interest Inventory Administered and Plan of Study Initiated for all Learners								
SECONDARY	9	English/ Language Arts I	Algebra I or Geometry	Biology	State History Civics	All plans of study should meet local and state high school graduation requirements and college entrance requirements. Certain local student organization activities are also important including public speaking, record keeping and work-based experiences.	**Introduction to the Transportation, Distribution and Logistics Industry ** Information Technology Applications	<ul style="list-style-type: none">► Airplane Pilot/Co-Pilot► Air Traffic Controller► Avionics Technician► Cargo and Freight Agent► Customs Inspector► Environmental Manager► Facility Engineer► Industrial Equipment Mechanic► Industrial and Packaging Engineer► International Logistics Specialist► Locomotive Engineer► Marine Captain► Port Manager► Safety Analyst► Storage and Distribution Manager► Transportation Manager► Truck Driver► Urban and Regional Planner► Warehouse Manager
	10	English/ Language Arts II	Geometry or Algebra II	Chemistry	U.S. History		**Health, Safety and Security in the Transportation Industry	
	11	English/ Language Arts III	Algebra II or Pre-Calculus or Trigonometry	Physics	Dependent on chosen pathway		**Transportation, Distribution and Logistics Systems **Technological Systems	
	College Placement Assessments-Academic/Career Advisement Provided							
	12	English/ Language Arts IV	Pre-Calculus or Trigonometry or AP Calculus Statistics	AP Science	World Geography or AP History		**Ethics and Legal Issues	
*Articulation/Dual Credit Transcribed-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes.								
POSTSECONDARY	Year 13	English Composition English Literature	Dependent on chosen pathway	Chemistry	Dependent on chosen pathway	All plans of study need to meet learners' career goals with regard to required degrees, licenses, certifications or journey worker status. Certain local student organization activities may also be important to include.	Continue courses pertinent to the pathway selected.	
	Year 14	Speech/ Oral Communication	Dependent on chosen pathway	Biological Science Physics	Dependent on chosen pathway			
	Year 15		Dependent on chosen pathway					
	Year 16							

**See course descriptions on page 2.

SAMPLE