

| Unit/Standard Number                  |  <p style="text-align: center;"><b>High School Graduation Years 2010, 2011 and 2012</b></p> <p style="text-align: center;"><b>Agricultural Mechanization<br/>CIP 01.0201<br/>Task Grid</b></p> | Proficiency Level Achieved:<br>(X) Indicates Competency Achieved to Industry Proficiency Level |
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| <b>Secondary Competency Task List</b> |                                                                                                                                                                                                                                                                                 |                                                                                                |
| <b>100</b>                            | <b>FUNDAMENTALS OF LEADERSHIP AND CAREER DEVELOPMENT</b>                                                                                                                                                                                                                        |                                                                                                |
| 101                                   | Identify and describe leadership.                                                                                                                                                                                                                                               |                                                                                                |
| 102                                   | Identify the factors in developing effective leaders.                                                                                                                                                                                                                           |                                                                                                |
| 103                                   | Identify traits of effective leaders.                                                                                                                                                                                                                                           |                                                                                                |
| 104                                   | Describe changing trends in agriculture and how they affect career opportunities.                                                                                                                                                                                               |                                                                                                |
| 105                                   | Identify transferable skills from one career pathway to another within agriculture.                                                                                                                                                                                             |                                                                                                |
| 106                                   | Design a continuing education plan to assist someone to move up a career ladder in a particular pathway.                                                                                                                                                                        |                                                                                                |
| 107                                   | Research salary and benefits for chosen career path and compare to target lifestyle.                                                                                                                                                                                            |                                                                                                |
| 108                                   | Establish personal and professional short- and long-term goals.                                                                                                                                                                                                                 |                                                                                                |
| 109                                   | Research career information and resources for use in career decision making.                                                                                                                                                                                                    |                                                                                                |
| 110                                   | Compile a career portfolio including a resume and samples of highlighted projects, personal newspaper clippings, etc.                                                                                                                                                           |                                                                                                |
| 111                                   | Describe the necessity of continuing education and lifelong learning to enhance career ladder development.                                                                                                                                                                      |                                                                                                |
| 112                                   | Participate in a mock interview, including the completion of a sample application.                                                                                                                                                                                              |                                                                                                |
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| <b>200</b>                            | <b>JOB READINESS AND RETENTION SKILLS</b>                                                                                                                                                                                                                                       |                                                                                                |
| 201                                   | Demonstrate appropriate workplace attire and etiquette.                                                                                                                                                                                                                         |                                                                                                |
| 202                                   | Demonstrate ability to work successfully within a team atmosphere.                                                                                                                                                                                                              |                                                                                                |
| 203                                   | Demonstrate problem solving techniques.                                                                                                                                                                                                                                         |                                                                                                |
| 204                                   | Work effectively with diverse and all individuals.                                                                                                                                                                                                                              |                                                                                                |
| 205                                   | Work independently and be self motivated.                                                                                                                                                                                                                                       |                                                                                                |
| 206                                   | Demonstrate conflict resolution techniques.                                                                                                                                                                                                                                     |                                                                                                |
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| <b>300</b>                            | <b>CITIZENSHIP</b>                                                                                                                                                                                                                                                              |                                                                                                |
| 301                                   | Identify and describe various community-based youth, civic and professional organizations.                                                                                                                                                                                      |                                                                                                |
| 302                                   | Participate in a selected community-based youth, civic or professional organization.                                                                                                                                                                                            |                                                                                                |
| 303                                   | Describe the purpose, structure and function of governmental units at all levels.                                                                                                                                                                                               |                                                                                                |
| 304                                   | Describe how public policy and laws are developed at the local, state and national level.                                                                                                                                                                                       |                                                                                                |
| 305                                   | Identify the limits of local government and the impact of state and federal laws on local governments.                                                                                                                                                                          |                                                                                                |
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| <b>400</b>                            | <b>PURPOSE, STRUCTURE, AND FUNCTION OF FFA</b>                                                                                                                                                                                                                                  |                                                                                                |

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| 401                  | Identify the aims, purposes and structures of the FFA.                                                                                                                                                                                                                         |                                                                                                |
| 402                  | Explain FFA tradition and principles.                                                                                                                                                                                                                                          |                                                                                                |
| 403                  | Describe the historical development of the FFA.                                                                                                                                                                                                                                |                                                                                                |
| 404                  | Participate in career development events.                                                                                                                                                                                                                                      |                                                                                                |
| 405                  | Understand the role of the FFA Foundation and Alumni.                                                                                                                                                                                                                          |                                                                                                |
| 406                  | Describe the intracurricular connection between FFA and agriculture education.                                                                                                                                                                                                 |                                                                                                |
| 407                  | Describe the role FFA plays in personal and professional development.                                                                                                                                                                                                          |                                                                                                |
| 408                  | Describe the practical application of the FFA motto.                                                                                                                                                                                                                           |                                                                                                |
| 409                  | Develop and implement an annual program of activities for the FFA chapter.                                                                                                                                                                                                     |                                                                                                |
| 410                  | Memorize and recite the FFA creed and motto.                                                                                                                                                                                                                                   |                                                                                                |
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| <b>500</b>           | <b>INDIVIDUAL AND GROUP LEADERSHIP</b>                                                                                                                                                                                                                                         |                                                                                                |
| 501                  | Demonstrate the ability to use parliamentary procedure in organizational business meetings.                                                                                                                                                                                    |                                                                                                |
| 502                  | Identify the key factors in building successful teams.                                                                                                                                                                                                                         |                                                                                                |
| 503                  | Conduct successful meetings.                                                                                                                                                                                                                                                   |                                                                                                |
| 504                  | Analyze personal strengths and weaknesses.                                                                                                                                                                                                                                     |                                                                                                |
| 505                  | Identify personality traits and how these affect relationships with others in the workplace.                                                                                                                                                                                   |                                                                                                |
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| <b>600</b>           | <b>COMMUNICATION AND PUBLIC SPEAKING</b>                                                                                                                                                                                                                                       |                                                                                                |
| 601                  | Demonstrate effective communication skills, including oral, written, listening and questioning.                                                                                                                                                                                |                                                                                                |
| 602                  | Create and deliver a prepared and extemporaneous speech demonstrating proper public speaking skills and etiquette.                                                                                                                                                             |                                                                                                |
| 603                  | Demonstrate basic journalism and writing skills.                                                                                                                                                                                                                               |                                                                                                |
| 604                  | Utilize techniques for effective debate.                                                                                                                                                                                                                                       |                                                                                                |
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| <b>700</b>           | <b>INFORMATION RESEARCH SKILLS</b>                                                                                                                                                                                                                                             |                                                                                                |
| 701                  | Conduct extensive research on a selected topic using a variety of sources.                                                                                                                                                                                                     |                                                                                                |
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| <b>800</b>           | <b>SUPERVISED AGRICULTURAL EXPERIENCE</b>                                                                                                                                                                                                                                      |                                                                                                |
| 801                  | Develop short-, mid- and long-term project plans.                                                                                                                                                                                                                              |                                                                                                |
| 802                  | Develop a Supervised Agricultural Experience (SAE) based upon individual interests/career goals.                                                                                                                                                                               |                                                                                                |
| 803                  | Maintain complete and accurate records.                                                                                                                                                                                                                                        |                                                                                                |
| 804                  | Analyze records to determine strengths and areas for improvement.                                                                                                                                                                                                              |                                                                                                |

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| 805                  | Conduct a research project using the scientific method.                                                                                                                                                                                                                        |                                                                                                |
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| <b>900</b>           | <b>MANAGEMENT, ECONOMICS, AND MARKETING</b>                                                                                                                                                                                                                                    |                                                                                                |
| 901                  | Discuss the historical significance of agriculture to US and global economic strength.                                                                                                                                                                                         |                                                                                                |
| 902                  | Maintain accurate business and financial records.                                                                                                                                                                                                                              |                                                                                                |
| 903                  | Identify possible types and sources of credit.                                                                                                                                                                                                                                 |                                                                                                |
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| <b>1000</b>          | <b>CORE SALES SKILLS</b>                                                                                                                                                                                                                                                       |                                                                                                |
| 1001                 | Use computers to enter, access or retrieve data.                                                                                                                                                                                                                               |                                                                                                |
| 1002                 | Prepare a technical report.                                                                                                                                                                                                                                                    |                                                                                                |
| 1003                 | Use telephone communication techniques.                                                                                                                                                                                                                                        |                                                                                                |
| 1004                 | Fill out business or government forms.                                                                                                                                                                                                                                         |                                                                                                |
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| <b>1100</b>          | <b>SOLICITING CUSTOMERS AND ORDERS</b>                                                                                                                                                                                                                                         |                                                                                                |
| 1101                 | Analyze sales activities or trends.                                                                                                                                                                                                                                            |                                                                                                |
| 1102                 | Prepare a list of prospective customers.                                                                                                                                                                                                                                       |                                                                                                |
| 1103                 | Use product knowledge and customer's need to solicit an order from established or new customers.                                                                                                                                                                               |                                                                                                |
| 1104                 | Access media advertising services.                                                                                                                                                                                                                                             |                                                                                                |
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| <b>1200</b>          | <b>PROVIDING CUSTOMER INFORMATION</b>                                                                                                                                                                                                                                          |                                                                                                |
| 1201                 | Conduct a sales presentation.                                                                                                                                                                                                                                                  |                                                                                                |
| 1202                 | Demonstrate goods or services.                                                                                                                                                                                                                                                 |                                                                                                |
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| <b>1300</b>          | <b>COMPLETING A SALE</b>                                                                                                                                                                                                                                                       |                                                                                                |
| 1301                 | Use sales techniques based on the customer.                                                                                                                                                                                                                                    |                                                                                                |
| 1302                 | Compute financial data.                                                                                                                                                                                                                                                        |                                                                                                |
| 1303                 | Arrange for trial installations of equipment.                                                                                                                                                                                                                                  |                                                                                                |
| 1304                 | Negotiate term of sale or services with customer.                                                                                                                                                                                                                              |                                                                                                |
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| <b>1400</b>          | <b>SALE FOLLOW-THROUGH</b>                                                                                                                                                                                                                                                     |                                                                                                |
| 1401                 | Arrange a delivery schedule.                                                                                                                                                                                                                                                   |                                                                                                |
| 1402                 | Conduct training in product use.                                                                                                                                                                                                                                               |                                                                                                |

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| 1403                 | Provide customer service needs.                                                                                                                                                                                                                                                |                                                                                                |
| <b>1500</b>          | <b>NATURAL RESOURCE MANAGEMENT</b>                                                                                                                                                                                                                                             |                                                                                                |
| 1501                 | Identify renewable and non-renewable natural resources.                                                                                                                                                                                                                        |                                                                                                |
| 1502                 | Define soil erosion and what causes soil erosion.                                                                                                                                                                                                                              |                                                                                                |
| 1503                 | Explain the hydrologic cycle.                                                                                                                                                                                                                                                  |                                                                                                |
| 1504                 | Identify the various types of land uses.                                                                                                                                                                                                                                       |                                                                                                |
| <b>1600</b>          | <b>HISTORICAL APPLICATIONS AND FUTURE IMPLICATIONS OF AGRICULTURAL POWER AND SYSTEMS TECHNOLOGIES</b>                                                                                                                                                                          |                                                                                                |
| 1601                 | Describe and discuss the historical development of agricultural power and systems technologies.                                                                                                                                                                                |                                                                                                |
| 1602                 | Identify global applications of agricultural power and systems technologies.                                                                                                                                                                                                   |                                                                                                |
| 1603                 | Identify emerging technologies and their potential impact.                                                                                                                                                                                                                     |                                                                                                |
| 1604                 | Identify methods of changing appropriate technology for various applications (size, social and cultural).                                                                                                                                                                      |                                                                                                |
| <b>1700</b>          | <b>SAFETY</b>                                                                                                                                                                                                                                                                  |                                                                                                |
| 1701                 | Demonstrate positive safety attitudes and responsibilities.                                                                                                                                                                                                                    |                                                                                                |
| 1702                 | Demonstrate safety rules and regulations.                                                                                                                                                                                                                                      |                                                                                                |
| 1703                 | Describe regulations, safety and consumer protection.                                                                                                                                                                                                                          |                                                                                                |
| 1704                 | Use fire extinguisher.                                                                                                                                                                                                                                                         |                                                                                                |
| 1705                 | Use first aid kit.                                                                                                                                                                                                                                                             |                                                                                                |
| <b>1800</b>          | <b>CAREERS IN AGRICULTURAL POWER AND SYSTEMS TECHNOLOGY</b>                                                                                                                                                                                                                    |                                                                                                |
| 1801                 | Examine career opportunities in agricultural power and systems technologies.                                                                                                                                                                                                   |                                                                                                |
| 1802                 | Identify advanced training and postsecondary education in agricultural engineering and systems technologies.                                                                                                                                                                   |                                                                                                |
| <b>1900</b>          | <b>TOOLS, EQUIPMENT, AND HARDWARE</b>                                                                                                                                                                                                                                          |                                                                                                |
| 1901                 | Identify, select, adjust, maintain and safely used common hand tools and power tools.                                                                                                                                                                                          |                                                                                                |
| 1902                 | Adjust, maintain and safely use common power shop equipment.                                                                                                                                                                                                                   |                                                                                                |
| 1903                 | Identify and select hardware used in the agricultural industry.                                                                                                                                                                                                                |                                                                                                |
| 1904                 | Demonstrate accurate use of measurement devices and techniques for calculating measurement including the metric system.                                                                                                                                                        |                                                                                                |
| <b>2000</b>          | <b>MATERIAL FABRICATION AND WELDING</b>                                                                                                                                                                                                                                        |                                                                                                |

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| 2001                 | Identify and select various types of metals and welding and cutting equipment.                                                                                                                                                                                                  |                                                                                                |
| 2002                 | Select, adjust, operate and maintain oxy-fuel equipment with and without filler rods.                                                                                                                                                                                           |                                                                                                |
| 2003                 | Select, safely operate and maintain the appropriate electric welding equipment.                                                                                                                                                                                                 |                                                                                                |
| 2004                 | Demonstrate and identify various types of quality welds and cuts and their components to insure quality products.                                                                                                                                                               |                                                                                                |
| 2005                 | Use soldering equipment.                                                                                                                                                                                                                                                        |                                                                                                |
| 2006                 | Operate woodworking equipment/machinery.                                                                                                                                                                                                                                        |                                                                                                |
| 2007                 | Repair sheet metal products.                                                                                                                                                                                                                                                    |                                                                                                |
| 2008                 | Fabricate manufactured products by hand.                                                                                                                                                                                                                                        |                                                                                                |
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| <b>2100</b>          | <b>CORE MECHANICS SKILLS</b>                                                                                                                                                                                                                                                    |                                                                                                |
| 2101                 | Read blueprints and schematics.                                                                                                                                                                                                                                                 |                                                                                                |
| 2102                 | Read work order, instructions, formulas or processing charts.                                                                                                                                                                                                                   |                                                                                                |
| 2103                 | Maintain repair records.                                                                                                                                                                                                                                                        |                                                                                                |
| 2104                 | Record details of repairs made and parts used.                                                                                                                                                                                                                                  |                                                                                                |
| 2105                 | Calculate bills according to record of repairs made, labor time and parts used.                                                                                                                                                                                                 |                                                                                                |
|                      |                                                                                                                                                                                                                                                                                 |                                                                                                |
| <b>2200</b>          | <b>ENGINE SYSTEMS</b>                                                                                                                                                                                                                                                           |                                                                                                |
| 2201                 | Identify the principles of operation for spark and compression ignition engines.                                                                                                                                                                                                |                                                                                                |
| 2202                 | Demonstrate the use of measuring and calibration devices.                                                                                                                                                                                                                       |                                                                                                |
| 2203                 | List the components and function of engine parts.                                                                                                                                                                                                                               |                                                                                                |
| 2204                 | Disassemble and reassemble an engine using all diagnostic tools.                                                                                                                                                                                                                |                                                                                                |
| 2205                 | Troubleshoot an engine and return it to working order.                                                                                                                                                                                                                          |                                                                                                |
| 2206                 | Maintain an engine.                                                                                                                                                                                                                                                             |                                                                                                |
| 2207                 | Select engine coolants, lubricants, fuels, engine additives, electrical components and drive systems needed for various applications.                                                                                                                                           |                                                                                                |
|                      |                                                                                                                                                                                                                                                                                 |                                                                                                |
| <b>2300</b>          | <b>VEHICLE SYSTEMS</b>                                                                                                                                                                                                                                                          |                                                                                                |
| 2301                 | Test vehicle to determine installation, service or repair needed.                                                                                                                                                                                                               |                                                                                                |
| 2302                 | Service vehicle with water, fuel or oil.                                                                                                                                                                                                                                        |                                                                                                |
|                      |                                                                                                                                                                                                                                                                                 |                                                                                                |
| <b>2400</b>          | <b>MACHINERY AND EQUIPMENT SYSTEMS</b>                                                                                                                                                                                                                                          |                                                                                                |
| 2401                 | Review operating and service manuals and schedules and conduct procedures as needed.                                                                                                                                                                                            |                                                                                                |
| 2402                 | Perform safety inspections in industrial, manufacturing or repair setting.                                                                                                                                                                                                      |                                                                                                |

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| 2403                 | Adjust or set mechanical controls or components.                                                                                                                                                                                                                                |                                                                                                |
| 2404                 | Select, measure, use and calibrate testing devices and the machines.                                                                                                                                                                                                            |                                                                                                |
| 2405                 | Move or fit heavy objects.                                                                                                                                                                                                                                                      |                                                                                                |
| 2406                 | Perform disassembly and assembly procedures.                                                                                                                                                                                                                                    |                                                                                                |
| 2407                 | Select, connect, engage and operate machinery and power units.                                                                                                                                                                                                                  |                                                                                                |
| 2408                 | Lubricate machinery, equipment or parts.                                                                                                                                                                                                                                        |                                                                                                |
| 2409                 | Demonstrate the correct selection and use of agricultural machinery and equipment systems.                                                                                                                                                                                      |                                                                                                |
| 2410                 | Demonstrate the use of auxiliary systems including hydraulics, pneumatics and electronics.                                                                                                                                                                                      |                                                                                                |
| 2411                 | Conduct troubleshooting procedures.                                                                                                                                                                                                                                             |                                                                                                |
| 2412                 | Test electrical/electronic wiring, equipment, systems or fixtures.                                                                                                                                                                                                              |                                                                                                |
| 2413                 | Repair or replace electrical wiring, circuits, fixtures or equipment.                                                                                                                                                                                                           |                                                                                                |
|                      |                                                                                                                                                                                                                                                                                 |                                                                                                |
| <b>2500</b>          | <b>ENERGY SYSTEMS</b>                                                                                                                                                                                                                                                           |                                                                                                |
| 2501                 | Identify the parts and functions of specific energy systems to include electrical power, solar power, wind power, mechanical power and chemical/carbon-based power systems.                                                                                                     |                                                                                                |
| 2502                 | Perform energy system maintenance, testing and evaluation.                                                                                                                                                                                                                      |                                                                                                |
| 2503                 | Discuss and explain the operating principles for energy systems.                                                                                                                                                                                                                |                                                                                                |
| 2504                 | Explain and describe the principles of power transmission, heat transfer, evaporation, fluid movement, conductivity, satellite transmission, conservation and regulations.                                                                                                      |                                                                                                |
| 2505                 | Use computer applications, remote sensing and automatic controls to manage systems.                                                                                                                                                                                             |                                                                                                |
| 2506                 | Identify and investigate emerging technologies and their economic impact on energy systems.                                                                                                                                                                                     |                                                                                                |
| 2507                 | Select appropriate industry standards for energy systems.                                                                                                                                                                                                                       |                                                                                                |
|                      |                                                                                                                                                                                                                                                                                 |                                                                                                |
| <b>2600</b>          | <b>STRUCTURAL SYSTEMS</b>                                                                                                                                                                                                                                                       |                                                                                                |
| 2601                 | Conduct a site evaluation and determine elevation, slope and cut and fill requirements.                                                                                                                                                                                         |                                                                                                |
| 2602                 | Design, draw and interpret plans and drawings for structures with consideration to building codes, regulations and inspection requirements.                                                                                                                                     |                                                                                                |
| 2603                 | Develop an itemized bill of materials, determine costs, delivery and storage requirements and construction time.                                                                                                                                                                |                                                                                                |
| 2604                 | Layout a structure foundation, erect batter boards and frames and/or forms.                                                                                                                                                                                                     |                                                                                                |
| 2605                 | Identify and evaluate building construction materials, methods and styles.                                                                                                                                                                                                      |                                                                                                |
| 2606                 | Calculate ventilation, insulation, heating, cooling, lighting, electrical, water and waste handling needs.                                                                                                                                                                      |                                                                                                |
| 2607                 | Calculate, mix and finish concrete and masonry units.                                                                                                                                                                                                                           |                                                                                                |
| 2608                 | Design and construct wall and roofing systems.                                                                                                                                                                                                                                  |                                                                                                |

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| 2609                 | Demonstrate skills in the construction of an agricultural structure.                                                                                                                                                                                                           |                                                                                                |
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| <b>2700</b>          | <b>PLUMBING, IRRIGATION, AND WATER SYSTEMS</b>                                                                                                                                                                                                                                 |                                                                                                |
| 2701                 | Identify the various plastic and metal components and their functions within water supply, waste and vent systems.                                                                                                                                                             |                                                                                                |
| 2702                 | Cut, assemble and pressure test components within various types of water supply systems.                                                                                                                                                                                       |                                                                                                |
| 2703                 | Determine pump and pipe size based on water requirements, head and friction losses for water and irrigation systems.                                                                                                                                                           |                                                                                                |
| 2704                 | Construct and identify the components in agricultural irrigation systems based on crop, greenhouse or landscaping needs.                                                                                                                                                       |                                                                                                |
| 2705                 | Identify the requirements of a safe water supply and treatment procedures that may be needed.                                                                                                                                                                                  |                                                                                                |
|                      |                                                                                                                                                                                                                                                                                |                                                                                                |
| <b>2800</b>          | <b>ENVIRONMENTAL AND NATURAL RESOURCE SYSTEMS</b>                                                                                                                                                                                                                              |                                                                                                |
| 2801                 | Identify environmental problems and use equipment and tools needed to measure the problems in livestock, crop handling, processing, nursery and landscaping, aquaculture, forestry and agribusiness industries.                                                                |                                                                                                |
| 2802                 | Use various map types and aerial photos for land use, soil, watershed, wildlife and natural resource management and conservation.                                                                                                                                              |                                                                                                |
| 2803                 | Use global positioning systems, remote sensing and collection equipment for various applications.                                                                                                                                                                              |                                                                                                |
| 2804                 | Read legal land descriptions and determine land areas using maps and on-site measuring techniques.                                                                                                                                                                             |                                                                                                |
| 2805                 | Identify, construct and evaluate storage and waste disposal systems and procedures.                                                                                                                                                                                            |                                                                                                |
| 2806                 | Assemble environmental and natural resource systems equipment and structures.                                                                                                                                                                                                  |                                                                                                |