



TEKS CORRELATIONS & SUGGESTED PACING GUIDE

Small Engine Technology II



**iCEV Architecture, Construction, Transportation &
Manufacturing Site**

Meets 82% of TEKS

261 days of teaching material

| Scope & Sequence | Lesson Title | TEKS | Days of Teaching |
|------------------|---|---|------------------|
| 1 | Personal & Occupational Health & Safety | 1.E.ii; 1.E.iii; 1.E.iv; 1.E.v; 1.E.vi; 1.E.vii; 1.E.viii | 11 |
| 2 | Basic Shop Safety | 1.E.ii; 1.E.iii; 1.E.iv; 1.E.v; 1.E.vi; 1.E.vii; 1.E.viii; 1.F.i | 5 |
| 3 | Math & Measurement in Engine Technology | 7.E.i; 7.F.i; 7.G.i | 11 |
| 4 | Engine Industry Documents | 5.B.i; 5.B.ii; 5.C.i; 5.C.ii; 5.D.i; 5.E.i; 5.E.ii; 5.E.iii; 7.A.i; 7.B.i; 7.B.ii; 7.C.i; 7.C.ii; 7.C.iii; 7.C.iv; 7.D.i; 7.D.ii; 7.D.iii; 7.D.iv; 7.D.v; 7.D.vi | 4 |
| 5 | Principles of Internal Combustion Engines | 9.A.i; 9.A.ii; 9.A.iii; 9.A.iv; 9.C.i; 9.C.ii; 9.C.iii; 10.D.i; 10.D.ii; 10.M.i; 10.N.i; 10.N.ii; 10.N.iii; 10.O.i; 10.O.ii; 10.P.i; 10.P.ii | 7 |
| 6 | Four-Stroke Engine: Overview | 5.E.ii, 6.A.i, 6.A.ii, 6.A.iii, 6.A.iv, 6.A.v, 6.A.vi, 9.A.i, 9.A.ii, 9.A.iii, 9.A.iv, 9.C.i, 9.C.ii, 9.C.iii, 10.D.i, 10.D.ii, 10.N.iii, 10.I.i, 10.I.ii, 10.I.iii, 10.K.i, 10.K.ii | 4 |
| 7 | Four-Stroke Engine: Components & Operation | 5.E.ii, 6.A.i, 6.A.ii, 6.A.iii, 6.A.iv, 6.A.v, 6.A.vi, 9.A.i, 9.A.ii, 9.A.iii, 9.A.iv, 9.C.i, 9.C.ii, 9.C.iii, 10.D.i, 10.D.ii, 10.E.ii, 10.E.iii, 10.I.i, 10.I.ii, 10.I.iii, 10.K.i, 10.K.ii | 5 |
| 8 | Four-Stroke Engine: Fuel System | 5.E.ii, 6.A.i, 6.A.ii, 6.A.iii, 6.A.iv, 6.A.v, 6.A.vi, 9.A.i, 9.A.ii, 9.A.iii, 9.A.iv, 9.C.i, 9.C.ii, 9.C.iii, 10.C.i, 10.C.ii, 10.E.v, 10.I.i, 10.I.ii, 10.I.iii, 10.K.i, 10.K.ii | 8 |
| 9 | Four-Stroke Engine: Emissions System | 5.E.ii, 6.A.i, 6.A.ii, 6.A.iii, 6.A.iv, 6.A.v, 6.A.vi, 9.A.i, 9.A.ii, 9.A.iii, 9.A.iv, 9.C.i, 9.C.ii, 9.C.iii, 10.I.i, 10.I.ii, 10.I.iii, 10.K.i, 10.K.ii | 5 |
| 10 | Four-Stroke Engine: Electrical System | 5.E.ii, 6.A.i, 6.A.ii, 6.A.iii, 6.A.iv, 6.A.v, 6.A.vi, 7.H.i, 7.H.ii, 9.A.i, 9.A.ii, 9.A.iii, 9.A.iv, 9.B.i, 9.C.i, 9.C.ii, 9.C.iii, 10.E.iv, 10.E.vi, 10.I.i, 10.I.ii, 10.I.iii, 10.J.i, 10.J.ii, 10.J.iii, 10.K.i, 10.K.ii | 6 |
| 11 | Four-Stroke Engine: Governor Systems | 5.E.ii, 6.A.i, 6.A.ii, 6.A.iii, 6.A.iv, 6.A.v, 6.A.vi, 9.A.i, 9.A.ii, 9.A.iii, 9.A.iv, 9.C.i, 9.C.ii, 9.C.iii, 10.I.i, 10.I.ii, 10.I.iii, 10.K.i, 10.K.ii | 2 |
| 12 | Four-Stroke Engine: Servicing & Troubleshooting | 5.A.iii, 5.A.vi, 5.A.ix, 5.A.xii, 5.A.xv, 5.A.xviii, 5.E.ii, 6.A.i, 6.A.ii, 6.A.iii, 6.A.iv, 6.A.v, 6.A.vi, 7.H.i, 7.H.ii, 9.A.i, 9.A.ii, 9.A.iii, 9.A.iv, 9.C.i, 9.C.ii, 9.C.iii, 10.A.i, 10.A.ii, 10.B.i, 10.E.i, 10.E.ii, 10.E.iii, 10.E.iv, 10.E.v, 10.E.vi, 10.F.vi, 10.F.vii, 10.F.viii, 10.I.i, 10.I.ii, 10.I.iii, 10.K.i, 10.K.ii | 7 |
| 13 | Small Engine Tools, Parts & Equipment Identification & Operation | 9.D.i; 9.D.ii; 10.F.i; 10.F.ii; 10.F.iii; 10.F.iv; 10.F.v; 10.F.vi; 10.F.vii; 10.F.viii; 10.G.i; 10.G.ii; 10.H.i; 10.I.i; 10.I.iii | 15 |
| 14 | Small Engine Technology: Understanding Basic Systems | 7.H.i; 7.H.ii; 9.B.i; 10.C.i; 10.C.ii; 10.E.ii; 10.E.iii; 10.E.iv; 10.E.v; 10.E.vi; 10.J.i; 10.J.ii; 10.J.iii; 10.K.i; 10.K.ii; 10.L.i | 9 |
| 15 | Small Gas Engine: Disassembly Procedures | 1.A.i; 1.A.ii; 1.B.i; 9.A.i; 9.A.ii; 9.C.ii | 8 |
| 16 | Small Gas Engine: Assembly Procedures | 9.A.ii; 9.A.iv; 9.C.ii; 10.N.i | 8 |
| 17 | Developing & Managing Preventative Maintenance Plans | 5.A.i; 5.A.ii; 5.A.iii; 5.A.iv; 5.A.v; 5.A.vi; 5.A.vii; 5.A.viii; 5.A.ix; 5.A.x; 5.A.xi; 5.A.xii; 5.A.xiii; 5.A.xiv; 5.A.xv; 5.A.xvi; 5.A.xvii; 5.A.xviii; 10.E.i | 4 |
| 18 | Small Engine Technology: Troubleshooting, Repair, Service & Maintenance | 1.D.i; 9.D.i; 10.A.i; 1.A.ii; 1.B.i; 10.I.i; 10.I.ii | 8 |
| 19 | Electronic Applications | 7.G.i; 7.H.i; 7.H.ii; 9.B.i | 5 |
| 20 | Research & Development in the Engine Service Industry | 6.A.i; 6.A.ii; 6.A.iii; 6.A.iv; 6.A.v; 6.A.vi; 6.B.i | 7 |
| 21 | Emerging Technologies in the Engine Service Industry | 4.A.i; 4.A.ii; 4.B.i; 4.B.ii; 4.B.iii; 4.B.iv; 4.C.i; 4.C.ii; 4.C.iii; 4.C.iv; 4.C.v; 4.C.vi; 4.C.vii; 4.C.viii; 8.C.i | 7 |
| 22 | Geographic Information Systems (GIS) & Global Positioning Systems (GPS) | 8.B.i; 8.B.ii | 6 |
| 23 | Skills for Real World Survival | 1.H.i; 1.H.ii; 1.H.iii; 2.D.ii; 2.D.iii; 8.A.i | 13 |
| 24 | Jobs, Careers & Education | 1.H.i; 1.H.ii; 1.H.iii | 10 |
| 25 | Formulas for Career Success: Career Testing & Investigation | 1.A.i; 1.H.i; 1.H.ii; 1.H.iii | 8 |
| 26 | Internships 101: The Importance of Internships | 1.A.i | 2 |
| 27 | Formulas for Career Success: Higher Learning | 1.H.iv; 1.H.v; 1.H.vi | 7 |
| 28 | Formulas for Career Success: Résumés | 1.I.i | 3 |
| 29 | Formulas for Career Success: Portfolio Development | 3.C.i | 5 |
| 30 | Formulas for Career Success: The Interview Process | 1.J.i | 7 |

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| 31 | Employability Skills | 1.C.i; 1.C.ii; 1.C.iii; 1.C.iv; 1.C.v; 1.C.vi; 1.E.i; 1.G.i; 1.G.ii; 1.G.iii; 2.A.i; 2.A.ii; 2.A.iii; 2.A.iv; 2.A.v; 2.A.vi; 3.B.i; | 5 |
| 32 | Citizenship Basics | 1.G.v; 3.A.i; 3.A.ii; 3.A.iii; 3.A.iv; 3.B.i | 9 |
| 33 | Emily Post, Who? | 2.B.i; 2.B.ii | 7 |
| 34 | Dressing, Emily Post Style | 2.C.i; 2.C.ii | 2 |
| 35 | Written Communication Practices | 2.D.i; 2.E.i; 2.E.ii | 15 |
| 36 | Public Speaking Basics | 2.E.ii; 2.F.i | 6 |
| 37 | Extemporaneous Speaking | 2.F.ii | 6 |
| 38 | Workplace Issues | 1.E.ii; 1.E.iii; 1.E.iv; 1.E.v; 1.E.vi; 1.E.vii; 1.E.viii; 1.G.iii; 1.G.iv; 2.A.i; 2.A.ii; 2.A.iii; 2.A.iv; 2.A.v; 2.A.vi | 4 |

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|--|---|
| Correlations to the Texas Essential Knowledge and Skills (TEKS): Student/Teacher Material | |
| Subject | Chapter 130. Texas Essential Knowledge and Skills for Career & Technical Education |
| Subchapter | Subchapter P. Transportation, Distribution, and Logistics |
| Course | §130.446. Small Engine Technology II (Two Credits), Adopted 2015. |
| Publisher | CEV Multimedia, Ltd |
| Program Title | iCEV Architecture, Construction, Transportation & Manufacturing Site |
| Program ISBN | 9781614592105 |
| TEKS Coverage (%) | 100.00% |

(a) **General requirements.** This course is recommended for students in Grades 10-12. Prerequisite: Small Engine Technology. Students shall be awarded two credits for successful completion of this course.

(b) Introduction.

- (1) Career and technical education instruction provides content aligned with challenging academic standards and relevant technical knowledge and skills for students to further their education and succeed in current or emerging professions.
- (2) The Transportation, Distribution, and Logistics Career Cluster focuses on planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water and related professional support services such as transportation infrastructure planning and management, logistics services, mobile equipment, and facility maintenance.
- (3) Small Engine Technology II includes advanced knowledge of the function, diagnosis, and service of the systems and components of all types of small engines such as outdoor power equipment, motorcycles, generators, and irrigation engines. This course is designed to provide hands-on and practical application for employment in the small engine technology industry. Instruction includes the repair and service of cooling, air, fuel, lubricating, electrical, ignition, and mechanical systems and small engine overhauls. In addition, students will receive instruction in safety, academic, and leadership skills as well as career opportunities.
- (4) Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.
- (5) Statements that contain the word "including" reference content that must be mastered, while those containing the phrase "such as" are intended as possible illustrative examples.

(c) Knowledge and Skills.

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|--|---|-----------------|---------------|----------------|---|---|
| (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to: | (A) identify career development and entrepreneurship opportunities in the small engine technology industry | (i) identify career development opportunities in the small engine technology industry | Student/Teacher | Narrative | 9781614592105 | Small Gas Engine: Disassembly Procedures | |
| | | | Student/Teacher | Activity | 9781614592105 | Student Handout - Career Opportunities ; Project - Career Opportunities | Small Gas Engine: Disassembly Procedures |
| | | | Student/Teacher | Narrative | 9781614592105 | Formulas for Career Success: Career Testing & Investigation | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Virtual Job Shadowing | Formulas for Career Success: Career Testing & Investigation |
| | | | Student/Teacher | Narrative | 9781614592105 | Internships 101: The Importance of Internships | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|--|--|-----------------|---------------|----------------|---|--|
| | | | Teacher Only | | | | |
| (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to: | (A) identify career development and entrepreneurship opportunities in the small engine technology industry | (ii) identify entrepreneurship opportunities in the small engine technology industry | Student/Teacher | Narrative | 9781614592105 | Small Gas Engine: Disassembly Procedures | |
| | | | Student/Teacher | Activity | 9781614592105 | Student Handout - Career Opportunities ; Project - Entrepreneurial Adventures | Small Gas Engine: Disassembly Procedures |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to: | (B) identify careers in the small engine technology industry | (i) identify careers in the small engine technology industry | Student/Teacher | Narrative | 9781614592105 | Small Gas Engine: Disassembly Procedures | |
| | | | Student/Teacher | Activity | 9781614592105 | Student Handout - Career Opportunities ; Project - Entrepreneurial Adventures | Small Gas Engine: Disassembly Procedures |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
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| | | | Teacher Only | Narrative | | | |
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| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|--|---|-----------------|---------------|----------------|---|----------------------|
| (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to: | (C) apply competencies related to resources, information, interpersonal skills, problem solving, critical thinking, and systems of operation in the small engine technology industry | (i) apply competencies related to resources in the small engine technology industry | Student/Teacher | Narrative | 9781614592105 | Employability Skills | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Continuing Education; Project - Interview; Project - Personal Skills; Activity - Skills Flashcards; Activity - Work Habits: Good vs Bad; Activity - Work Habits: Good vs Bad Answer Key; Activity - Critical & Creative; Activity - Critical & Creative Answer Key; Activity - Problem Solving; Activity - Problem Solving | Employability Skills |
| | | | Student/Teacher | | | | |
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| | | | Teacher Only | Narrative | | | |
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| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|--|--|-----------------|---------------|----------------|---|----------------------|
| (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to: | (C) apply competencies related to resources, information, interpersonal skills, problem solving, critical thinking, and systems of operation in the small engine technology industry | (ii) apply competencies related to information in the small engine technology industry | Student/Teacher | Narrative | 9781614592105 | Employability Skills | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Continuing Education; Project - Interview; Project - Personal Skills; Activity - Skills Flashcards; Activity - Work Habits: Good vs Bad; Activity - Work Habits: Good vs Bad Answer Key; Activity - Critical & Creative; Activity - Critical & Creative Answer Key; Activity - Problem Solving; Activity - Problem Solving | Employability Skills |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
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| | | | Teacher Only | Narrative | | | |
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| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|--|--|-----------------|---------------|----------------|---|----------------------|
| (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to: | (C) apply competencies related to resources, information, interpersonal skills, problem solving, critical thinking, and systems of operation in the small engine technology industry | (iii) apply competencies related to interpersonal skills in the small engine technology industry | Student/Teacher | Narrative | 9781614592105 | Employability Skills | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Continuing Education; Project - Interview; Project - Personal Skills; Activity - Skills Flashcards; Activity - Work Habits: Good vs Bad; Activity - Work Habits: Good vs Bad Answer Key; Activity - Critical & Creative; Activity - Critical & Creative Answer Key; Activity - Problem Solving; Activity - Problem Solving | Employability Skills |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
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| | | | Teacher Only | Narrative | | | |
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| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|--|--|-----------------|---------------|----------------|---|----------------------|
| (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to: | (C) apply competencies related to resources, information, interpersonal skills, problem solving, critical thinking, and systems of operation in the small engine technology industry | (iv) apply competencies related to problem solving in the small engine technology industry | Student/Teacher | Narrative | 9781614592105 | Employability Skills | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Continuing Education; Project - Interview; Project - Personal Skills; Activity - Skills Flashcards; Activity - Work Habits: Good vs Bad; Activity - Work Habits: Good vs Bad Answer Key; Activity - Critical & Creative; Activity - Critical & Creative Answer Key; Activity - Problem Solving; Activity - Problem Solving | Employability Skills |
| | | | Student/Teacher | | | | |
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| | | | Student/Teacher | | | | |
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| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|--|---|-----------------|---------------|----------------|---|----------------------|
| (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to: | (C) apply competencies related to resources, information, interpersonal skills, problem solving, critical thinking, and systems of operation in the small engine technology industry | (v) apply competencies related to critical thinking in the small engine technology industry | Student/Teacher | Narrative | 9781614592105 | Employability Skills | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Continuing Education; Project - Interview; Project - Personal Skills; Activity - Skills Flashcards; Activity - Work Habits: Good vs Bad; Activity - Work Habits: Good vs Bad Answer Key; Activity - Critical & Creative; Activity - Critical & Creative Answer Key; Activity - Problem Solving; Activity - Problem Solving | Employability Skills |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
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| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|--|--|-----------------|---------------|----------------|---|---|
| (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to: | (C) apply competencies related to resources, information, interpersonal skills, problem solving, critical thinking, and systems of operation in the small engine technology industry | (vi) apply competencies related to systems of operation in the small engine technology | Student/Teacher | Narrative | 9781614592105 | Employability Skills | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Continuing Education; Project - Interview; Project - Personal Skills; Activity - Skills Flashcards; Activity - Work Habits: Good vs Bad; Activity - Work Habits: Good vs Bad Answer Key; Activity - Critical & Creative; Activity - Critical & Creative Answer Key; Activity - Problem Solving; Activity - Problem Solving | Employability Skills |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
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| | | | Teacher Only | | | | |
| (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to: | (D) discuss certification opportunities | (i) discuss certification opportunities | Student/Teacher | Narrative | 9781614592105 | Small Engine Technology: Troubleshooting, Repair, Service & Maintenance | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Certifications | Small Engine Technology: Troubleshooting, Repair, Service & Maintenance |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
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| | | | Teacher Only | | | | |
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| (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to: | (E) demonstrate skills and knowledge of personal and occupational health and safety in the workplace | (i) demonstrate skills of personal health in the workplace | Student/Teacher | Narrative | 9781614592105 | Employability Skills | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - The Physical Health Connection; Activity - The Physical Health Connection Answer Key | Employability Skills |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
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| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|--|---|-----------------|---------------|----------------|---|---|
| (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to: | (E) demonstrate skills and knowledge of personal and occupational health and safety in the workplace | (ii) demonstrate skills of occupational health in the workplace | Student/Teacher | Narrative | 9781614592105 | Workplace Issues | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Facts & Opinions in Occupational Safety Practices; Activity - Federal Laws for Safety; Activity - Creating an Employee Handbook; Project - Determining Health Practices in the Workplace; Project - In Your Own Words: OSHA in the Workplace ; Project - Wellness Practices in Personal & Occupational Health & Safety | Workplace Issues |
| | | | Student/Teacher | Narrative | 9781614592105 | Activity - Hazard Solutions; Activity - Hazard Solutions Teacher Instruction Sheet; Activity - Personal Protective Equipment; Activity - Safety Inspection Checklist; Project - OSHA; Project - Public Safety; Student Handout - Basic Shop Safety | Personal & Occupational Health & Safety |
| | | | Student/Teacher | Narrative | 9781614592105 | Basic Shop Safety; Student Handout - Basic Shop Safety | Basic Shop Safety; PLEASE NOTE: Due to space limitations, the narrative and associated activity are listed on one line. Several lessons and corresponding activities satisfy this standard. |
| | | | Teacher Only | Narrative | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
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| | | | Teacher Only | | | | |
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| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to: | (E) demonstrate skills and knowledge of personal and occupational health and safety in the workplace | (iii) demonstrate skills of personal safety in the workplace | Student/Teacher | Narrative | 9781614592105 | Workplace Issues | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Facts & Opinions in Occupational Safety Practices; Activity - Federal Laws for Safety; Project - Creating an Employee Handbook; Project - Determining Health Practices in the Workplace; Project - In Your Own Words: OSHA in the Workplace ; Project - Wellness Practices in | Workplace Issues |
| | | | Student/Teacher | Narrative | 9781614592105 | Personal & Occupational Health & Safety | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Hazard Solutions; Activity - Hazard Solutions Teacher Instruction Sheet; Activity - Personal Protective Equipment; Activity - Safety Inspection Checklist; Project - OSHA; Project - Public | Personal & Occupational Health & Safety |
| | | | Student/Teacher | Narrative | 9781614592105 | Basic Shop Safety; Student Handout - Basic Shop Safety | Basic Shop Safety; PLEASE NOTE: Due to space limitations, the narrative and associated activity are listed on one line. Several lessons and corresponding activities satisfy this standard. |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--------------------------------|---------------------|----------|--------------|---------------|----------------|----------|-------------------|
| | | | Teacher Only | Narrative | | | |
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| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|--|---|-----------------|---------------|----------------|--|---|
| (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to: | (E) demonstrate skills and knowledge of personal and occupational health and safety in the workplace | (iv) demonstrate skills of occupational health in the workplace | Student/Teacher | Narrative | 9781614592105 | Workplace Issues | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Facts & Opinions in Occupational Safety Practices; Activity - Federal Laws for Safety; Project - Creating an Employee Handbook; Project - Determining Health Practices in the Workplace; Project - In Your Own Words: OSHA in the Workplace ; Project - Wellness Practices in Personal & Occupational Health & Safety | Workplace Issues |
| | | | Student/Teacher | Narrative | 9781614592105 | Activity - Hazard Solutions; Activity - Hazard Solutions Teacher Instruction Sheet; Activity - Personal Protective Equipment; Activity - Safety Inspection Checklist; Project - OSHA; Project - Public Safety; Student Handout - Basic Shop Safety | Personal & Occupational Health & Safety |
| | | | Student/Teacher | Narrative | 9781614592105 | Basic Shop Safety; Student Handout - Basic Shop Safety | Basic Shop Safety; PLEASE NOTE: Due to space limitations, the narrative and associated activity are listed on one line. Several lessons and corresponding activities satisfy this standard. |
| | | | Teacher Only | Narrative | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|--|---|-----------------|---------------|----------------|--|---|
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to: | (E) demonstrate skills and knowledge of personal and occupational health and safety in the workplace | (v) demonstrate knowledge of personal health in the workplace | Student/Teacher | Narrative | 9781614592105 | Workplace Issues | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Facts & Opinions in Occupational Safety Practices; Activity - Federal Laws for Safety; Project - Creating an Employee Handbook; Project - Determining Health Practices in the Workplace; Project - In Your Own Words: OSHA in the Workplace ; Project - Wellness Practices in Personal & Occupational Health & Safety | Workplace Issues |
| | | | Student/Teacher | Narrative | 9781614592105 | Personal & Occupational Health & Safety | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Hazard Solutions; Activity - Hazard Solutions Teacher Instruction Sheet; Activity - Personal Protective Equipment; Activity - Safety Inspection Checklist; Project - OSHA; Project - Public | Personal & Occupational Health & Safety |
| | | | Student/Teacher | Narrative | 9781614592105 | Basic Shop Safety; Student Handout - Basic Shop Safety | Basic Shop Safety; PLEASE NOTE: Due to space limitations, the narrative and associated activity are listed on one line. Several lessons and corresponding activities satisfy this standard. |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--------------------------------|---------------------|----------|--------------|---------------|----------------|----------|-------------------|
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|--|--|-----------------|---------------|----------------|--|---|
| (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to: | (E) demonstrate skills and knowledge of personal and occupational health and safety in the workplace | (vi) demonstrate knowledge of occupational health in the workplace | Student/Teacher | Narrative | 9781614592105 | Workplace Issues | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Facts & Opinions in Occupational Safety Practices; Activity - Federal Laws for Safety; Project - Creating an Employee Handbook; Project - Determining Health Practices in the Workplace; Project - In Your Own Words: OSHA in the Workplace ; Project - Wellness Practices in Personal & Occupational Health & Safety | Workplace Issues |
| | | | Student/Teacher | Narrative | 9781614592105 | Activity - Hazard Solutions; Activity - Hazard Solutions Teacher Instruction Sheet; Activity - Personal Protective Equipment; Activity - Safety Inspection Checklist; Project - OSHA; Project - Public Safety; Student Handout - Basic Shop Safety | Personal & Occupational Health & Safety |
| | | | Student/Teacher | Narrative | 9781614592105 | Basic Shop Safety; Student Handout - Basic Shop Safety | Basic Shop Safety; PLEASE NOTE: Due to space limitations, the narrative and associated activity are listed on one line. Several lessons and corresponding activities satisfy this standard. |
| | | | Teacher Only | Narrative | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|--|---|-----------------|---------------|----------------|--|---|
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to: | (E) demonstrate skills and knowledge of personal and occupational health and safety in the workplace | (vii) demonstrate knowledge of personal safety in the workplace | Student/Teacher | Narrative | 9781614592105 | Workplace Issues | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Facts & Opinions in Occupational Safety Practices; Activity - Federal Laws for Safety; Project - Creating an Employee Handbook; Project - Determining Health Practices in the Workplace; Project - In Your Own Words: OSHA in the Workplace ; Project - Wellness Practices in | Workplace Issues |
| | | | Student/Teacher | Narrative | 9781614592105 | Personal & Occupational Health & Safety | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Hazard Solutions; Activity - Hazard Solutions Teacher Instruction Sheet; Activity - Personal Protective Equipment; Activity - Safety Inspection Checklist; Project - OSHA; Project - Public | Personal & Occupational Health & Safety |
| | | | Student/Teacher | Narrative | 9781614592105 | Basic Shop Safety; Student Handout - Basic Shop Safety | Basic Shop Safety; PLEASE NOTE: Due to space limitations, the narrative and associated activity are listed on one line. Several lessons and corresponding activities satisfy this standard. |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--------------------------------|---------------------|----------|--------------|---------------|----------------|----------|-------------------|
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|--|--|-----------------|---------------|----------------|--|---|
| (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to: | (E) demonstrate skills and knowledge of personal and occupational health and safety in the workplace | (viii) demonstrate knowledge of occupational safety in the workplace | Student/Teacher | Narrative | 9781614592105 | Workplace Issues | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Facts & Opinions in Occupational Safety Practices; Activity - Federal Laws for Safety; Project - Creating an Employee Handbook; Project - Determining Health Practices in the Workplace; Project - In Your Own Words: OSHA in the Workplace ; Project - Wellness Practices in Personal & Occupational Health & Safety | Workplace Issues |
| | | | Student/Teacher | Narrative | 9781614592105 | Activity - Hazard Solutions; Activity - Hazard Solutions Teacher Instruction Sheet; Activity - Personal Protective Equipment; Activity - Safety Inspection Checklist; Project - OSHA; Project - Public Safety; Student Handout - Basic Shop Safety | Personal & Occupational Health & Safety |
| | | | Student/Teacher | Narrative | 9781614592105 | Basic Shop Safety; Student Handout - Basic Shop Safety | Basic Shop Safety; PLEASE NOTE: Due to space limitations, the narrative and associated activity are listed on one line. Several lessons and corresponding activities satisfy this standard. |
| | | | Teacher Only | Narrative | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|--|--|-----------------|---------------|----------------|--|-------------------|
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to: | (F) discuss response plans to emergency situations | (i) discuss response plans to emergency situations | Student/Teacher | Narrative | 9781614592105 | Basic Shop Safety | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - First Response Procedures; Activity - First Response Procedures Teacher Instruction Sheet | Basic Shop Safety |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|---|---------------------------------------|-----------------|---------------|----------------|---|----------------------|
| (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to: | (G) identify employers' expectations, appropriate work habits, ethical conduct, legal responsibilities, and good citizenship skills | (i) identify employers' expectations | Student/Teacher | Narrative | 9781614592105 | Employability Skills | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Continuing Education; Project - Interview; Project - Personal Skills; Activity - Skills Flashcards; Activity - Work Habits: Good vs Bad; Activity - Work Habits: Good vs Bad Answer Key; Activity - Critical & Creative; Activity - Critical & Creative Answer Key; Activity - Problem Solving; Activity - Problem Solving | Employability Skills |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to: | (G) identify employers' expectations, appropriate work habits, ethical conduct, legal responsibilities, and good citizenship skills | (ii) identify appropriate work habits | Student/Teacher | Narrative | 9781614592105 | Employability Skills | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Work Habits: Good vs. Bad; Activity - Work Habits: Good vs. Bad Answer Key | Employability Skills |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|---|--------------------------------------|-----------------|---------------|----------------|--|-------------------|
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to: | (G) identify employers' expectations, appropriate work habits, ethical conduct, legal responsibilities, and good citizenship skills | (iii) identify ethical conduct | Student/Teacher | Narrative | 9781614592105 | Employability Skills | |
| | | | Student/Teacher | Narrative | 9781614592105 | Workplace Issues | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Negative Choices in the | Workplace Issues |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to: | (G) identify employers' expectations, appropriate work habits, ethical conduct, legal responsibilities, and good citizenship skills | (iv) identify legal responsibilities | Student/Teacher | Narrative | 9781614592105 | Workplace Issues | |
| | | | Student/Teacher | Activity | 9781614592105 | Student Handout - Employee Rights & Responsibilities in the Workplace; Student Handout - Employer Rights & Responsibilities in the Workplace; Activity - Sexual Harassment or Not; Activity - Sexual Harassment or Not | Workplace Issues |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|---|--|-----------------|---------------|----------------|---|---|
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to: | (G) identify employers' expectations, appropriate work habits, ethical conduct, legal responsibilities, and good citizenship skills | (v) identify good citizenship skills | Student/Teacher | Narrative | 9781614592105 | Citizenship Basics | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Citizenship: What's it to You?: Project - Serving the Community | Citizenship Basics |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to: | (H) develop personal goals, objectives, and strategies as part of a plan for future career and educational opportunities | (i) develop personal goals as part of a plan for future career opportunities | Student/Teacher | Narrative | 9781614592105 | Skills for Real World Survival | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Goal Setting | Skills for Real World Survival |
| | | | Student/Teacher | Narrative | 9781614592105 | Jobs, Careers & Project - Career Plan Timeline; Activity - My Future | Jobs, Careers & Education |
| | | | Student/Teacher | Activity | 9781614592105 | Formulas for Career Success: Career Testing & Investigation; Activity - What I Want in a Career; Project - Personal | Formulas for Career Success: Career Testing & Investigation; PLEASE NOTE: Due to space limitations, the narrative and associated activity are listed on one line. Several lessons and corresponding activities satisfy this standard. |
| | | | Student/Teacher | Narrative | 9781614592105 | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|--|---|-----------------|---------------|----------------|---|---|
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to: | (H) develop personal goals, objectives, and strategies as part of a plan for future career and educational opportunities | (ii) develop personal objectives as part of a plan for future career opportunities | Student/Teacher | Narrative | 9781614592105 | Skills for Real World Survival | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Goal Setting | Skills for Real World Survival |
| | | | Student/Teacher | Narrative | 9781614592105 | Jobs, Careers & | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Career Plan Timeline; Activity - My Future | Jobs, Careers & Education |
| | | | Student/Teacher | Narrative | 9781614592105 | Formulas for Career Success: Career Testing & Investigation; Activity - What I Want in a Career; Project - Personal | Formulas for Career Success: Career Testing & Investigation; PLEASE NOTE: Due to space limitations, the narrative and associated activity are listed on one line. Several lessons and corresponding activities satisfy this standard. |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to: | (H) develop personal goals, objectives, and strategies as part of a plan for future career and educational opportunities | (iii) develop personal strategies as part of a plan for future career opportunities | Student/Teacher | Narrative | 9781614592105 | Skills for Real World Survival | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Goal Setting | Skills for Real World Survival |
| | | | Student/Teacher | Narrative | 9781614592105 | Jobs, Careers & | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Career Plan Timeline; Activity - My Future | Jobs, Careers & Education |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|--|--|-----------------|---------------|----------------|---|---|
| | | | Student/Teacher | Narrative | 9781614592105 | Formulas for Career Success: Career Testing & Investigation; Activity - What I Want in a Career; Project - Personal | Formulas for Career Success: Career Testing & Investigation; PLEASE NOTE: Due to space limitations, the narrative and associated activity are listed on one line. Several lessons and corresponding activities satisfy this standard. |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to: | (H) develop personal goals, objectives, and strategies as part of a plan for future career and educational opportunities | (iv) develop personal goals as part of a plan for future educational opportunities | Student/Teacher | Narrative | 9781614592105 | Formulas for Career Success: Higher Learning | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Preparatory Journal | Formulas for Career Success: Higher Learning |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to: | (H) develop personal goals, objectives, and strategies as part of a plan for future career and educational opportunities | (v) develop personal objectives as part of a plan for future educational opportunities | Student/Teacher | Narrative | 9781614592105 | Formulas for Career Success: Higher Learning | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Preparatory Journal | Formulas for Career Success: Higher Learning |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|--|---|-----------------|---------------|----------------|---|--|
| (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to: | (H) develop personal goals, objectives, and strategies as part of a plan for future career and educational opportunities | (vi) develop personal strategies as part of a plan for future educational opportunities | Student/Teacher | Narrative | 9781614592105 | Formulas for Career Success: Higher Learning | Formulas for Career Success: Higher Learning |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Preparatory Journal | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to: | (I) prepare a resume | (i) prepare a resume | Student/Teacher | Narrative | 9781614592105 | Formulas for Career Success: Résumés | Formulas for Career Success: Résumés |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Sample Résumé Discussion; Project - Résumé Development | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|---|---|-----------------|---------------|----------------|--|--|
| (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to: | (J) demonstrate job interview skills | (j) demonstrate job interview skills | Student/Teacher | Narrative | 9781614592105 | Formulas for Career Success: Interview Process | Formulas for Career Success: Interview Process |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Guide to Interviews; Project - Mock Interview; Project - Mock Interview | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (2) The student demonstrates appropriate personal and communication skills. The student is expected to: | (A) describe, demonstrate, and apply ethical and legal responsibilities for appropriate workplace conduct | (i) describe ethical responsibilities for appropriate workplace conduct | Student/Teacher | Narrative | 9781614592105 | Employability Skills | Employability Skills |
| | | | Student/Teacher | Narrative | 9781614592105 | Workplace Issues | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Negative Choices in the Workplace; Activity - Sexual Harassment or Not; Activity - Sexual Harassment | Workplace Issues |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|---|---|-----------------|---------------|----------------|--|-------------------|
| (2) The student demonstrates appropriate personal and communication skills. The student is expected to: | (A) describe, demonstrate, and apply ethical and legal responsibilities for appropriate workplace conduct | (ii) demonstrate ethical responsibilities for appropriate workplace conduct | Student/Teacher | Narrative | 9781614592105 | Employability Skills | |
| | | | Student/Teacher | Narrative | 9781614592105 | Workplace Issues | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Negative Choices in the Workplace; Activity - Sexual Harassment or Not; Activity - Sexual Harassment | Workplace Issues |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (2) The student demonstrates appropriate personal and communication skills. The student is expected to: | (A) describe, demonstrate, and apply ethical and legal responsibilities for appropriate workplace conduct | (iii) apply ethical responsibilities for appropriate workplace conduct | Student/Teacher | Narrative | 9781614592105 | Employability Skills | |
| | | | Student/Teacher | Narrative | 9781614592105 | Workplace Issues | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Negative Choices in the Workplace; Activity - Sexual Harassment or Not; Activity - Sexual Harassment | Workplace Issues |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|---|--|-----------------|---------------|----------------|--|-------------------|
| (2) The student demonstrates appropriate personal and communication skills. The student is expected to: | (A) describe, demonstrate, and apply ethical and legal responsibilities for appropriate workplace conduct | (iv) describe legal responsibilities for appropriate workplace conduct | Student/Teacher | Narrative | 9781614592105 | Employability Skills | |
| | | | Student/Teacher | Narrative | 9781614592105 | Workplace Issues | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Negative Choices in the Workplace; Activity - Sexual Harassment or Not; Activity - Sexual Harassment | Workplace Issues |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (2) The student demonstrates appropriate personal and communication skills. The student is expected to: | (A) describe, demonstrate, and apply ethical and legal responsibilities for appropriate workplace conduct | (v) demonstrate legal responsibilities for appropriate workplace conduct | Student/Teacher | Narrative | 9781614592105 | Employability Skills | |
| | | | Student/Teacher | Narrative | 9781614592105 | Workplace Issues | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Negative Choices in the Workplace; Activity - Sexual Harassment or Not; Activity - Sexual Harassment | Workplace Issues |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|---|---|-----------------|---------------|----------------|---|-------------------|
| (2) The student demonstrates appropriate personal and communication skills. The student is expected to: | (A) describe, demonstrate, and apply ethical and legal responsibilities for appropriate workplace conduct | (vi) apply legal responsibilities for appropriate workplace conduct | Student/Teacher | Narrative | 9781614592105 | Employability Skills | |
| | | | Student/Teacher | Narrative | 9781614592105 | Workplace Issues | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Negative Choices in the Workplace; Activity - Sexual Harassment or Not; Activity - Sexual Harassment | Workplace Issues |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (2) The student demonstrates appropriate personal and communication skills. The student is expected to: | (B) demonstrate proper etiquette and behavior | (i) demonstrate proper etiquette | Student/Teacher | Narrative | 9781614592105 | Emily Post, Who? | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Etiquette at Work; Activity - Etiquette Now and Then; Project - Etiquette in a New Era; Project - Personal Etiquette | Emily Post, Who? |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|---|---|-----------------|---------------|----------------|---|----------------------------|
| (2) The student demonstrates appropriate personal and communication skills. The student is expected to: | (B) demonstrate proper etiquette and behavior | (ii) demonstrate proper behavior | Student/Teacher | Narrative | 9781614592105 | Emily Post, Who? | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Etiquette at Work; Activity - Etiquette Now and Then; Project - Etiquette in a New Era; Project - Personal Etiquette | Emily Post, Who? |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (2) The student demonstrates appropriate personal and communication skills. The student is expected to: | (C) demonstrate appropriate personal appearance and hygiene | (i) demonstrate appropriate personal appearance | Student/Teacher | Narrative | 9781614592105 | Dressing, Emily Post Style | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Professional Appearance for Job | Dressing, Emily Post Style |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|---|--|-----------------|---------------|----------------|---|---------------------------------|
| (2) The student demonstrates appropriate personal and communication skills. The student is expected to: | (C) demonstrate appropriate personal appearance and hygiene | (i) demonstrate appropriate personal hygiene | Student/Teacher | Narrative | 9781614592105 | Dressing, Emily Post Style | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Professional Appearance for Job | Dressing, Emily Post Style |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (2) The student demonstrates appropriate personal and communication skills. The student is expected to: | (D) demonstrate effective written and oral communication skills and employ effective listening skills | (i) demonstrate effective written communication skills | Student/Teacher | Narrative | 9781614592105 | Written Communication Practices | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Letter; Activity - Letter Answer Key; Activity - Blog; Project - | Written Communication Practices |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|---|---|-----------------|---------------|----------------|--|--------------------------------|
| (2) The student demonstrates appropriate personal and communication skills. The student is expected to: | (D) demonstrate effective written and oral communication skills and employ effective listening skills | (i) demonstrate effective oral communication skills | Student/Teacher | Narrative | 9781614592105 | Skills for Real World Survival | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Persuasive Speech; Project - Persuasive Speech Teacher Instruction Sheet | Skills for Real World Survival |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (2) The student demonstrates appropriate personal and communication skills. The student is expected to: | (D) demonstrate effective written and oral communication skills and employ effective listening skills | (iii) employ effective listening skills | Student/Teacher | Narrative | 9781614592105 | Skills for Real World Survival | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Team Building Exercise: Fill the Glass; Activity - Team Building Exercise: Fill the Glass Teacher | Skills for Real World Survival |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (2) The student demonstrates appropriate personal and communication skills. The student is expected to: | (E) demonstrate advanced technical writing and preparation skills | (i) demonstrate advanced technical writing skills | Student/Teacher | Narrative | 9781614592105 | Written Communication Practices | |
| | | | | | | | |
| | | | | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|---|---|-----------------|---------------|----------------|---|---------------------------------|
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Letter; Activity - Letter Answer Key; Activity - Blog; Project - | Written Communication Practices |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (2) The student demonstrates appropriate personal and communication skills. The student is expected to: | (E) demonstrate advanced technical writing and preparation skills | (ii) demonstrate technical preparation skills | Student/Teacher | Narrative | 9781614592105 | Written Communication Practices | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Letter; Activity - Letter Answer Key; Activity - Blog; Project - | Written Communication Practices |
| | | | Student/Teacher | Narrative | 9781614592105 | Public Speaking Basics | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|--|--|-----------------|---------------|----------------|---|-------------------------|
| (2) The student demonstrates appropriate personal and communication skills. The student is expected to: | (F) demonstrate effective speaking skills through prepared and extemporaneous oral presentations | (i) demonstrate effective speaking skills through prepared oral presentations | Student/Teacher | Narrative | 9781614592105 | Public Speaking Basics | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - City Council; Project - City Council Teacher Instruction Sheet | Public Speaking Basics |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (2) The student demonstrates appropriate personal and communication skills. The student is expected to: | (F) demonstrate effective speaking skills through prepared and extemporaneous oral presentations | (ii) demonstrate effective speaking skills through extemporaneous oral presentations | Student/Teacher | Narrative | 9781614592105 | Extemporaneous Speaking | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Charades Teacher Instruction Sheet; Project - Your Career Extemporaneous Speeches Teacher | Extemporaneous Speaking |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|--|--|-----------------|---------------|----------------|------------------------------------|--------------------|
| (3) The student participates in opportunities for leadership development and personal growth. The student is expected to: | (A) participate in the planning and development of leadership and skill development activities such as conducting effective meetings, team building activities, and strategic planning | (i) participate in the planning of leadership development activities | Student/Teacher | Narrative | 9781614592105 | Citizenship Basics | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Professional Development | Citizenship Basics |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (3) The student participates in opportunities for leadership development and personal growth. The student is expected to: | (A) participate in the planning and development of leadership and skill development activities such as conducting effective meetings, team building activities, and strategic planning | (ii) participate in the development of leadership development activities | Student/Teacher | Narrative | 9781614592105 | Citizenship Basics | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Professional Development | Citizenship Basics |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (3) The student participates in opportunities for leadership development and personal growth. The student is expected to: | (A) participate in the planning and development of leadership and skill development activities such as conducting effective meetings, team building activities, and strategic planning | (iii) participate in the planning of skills development activities | Student/Teacher | Narrative | 9781614592105 | Citizenship Basics | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Professional Development | Citizenship Basics |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|--|---|-----------------|---------------|----------------|---|--|
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (3) The student participates in opportunities for leadership development and personal growth. The student is expected to: | (A) participate in the planning and development of leadership and skill development activities such as conducting effective meetings, team building activities, and strategic planning | (iv) participate in the development of skills development activities | Student/Teacher | Narrative | 9781614592105 | Citizenship Basics | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Professional Development | Citizenship Basics |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (3) The student participates in opportunities for leadership development and personal growth. The student is expected to: | (B) use resources available through an organizations such as a career and technical student organizations to develop employability skills | (i) use resources available through an organization to develop employability skills | Student/Teacher | Narrative | 9781614592105 | Citizenship Basics | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Professional Development | Citizenship Basics |
| | | | Student/Teacher | Narrative | 9781614592105 | Employability Skills | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (3) The student participates in opportunities for leadership development and personal growth. The student is expected to: | (C) record individual progress to document achievements | (i) record individual progress to document achievements | Student/Teacher | Narrative | 9781614592105 | Formulas for Career Success: Portfolio Development | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Choosing Artifacts; Activity - Creating Artifacts; Project - Portfolio Development | Formulas for Career Success: Portfolio Development |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|---|--|-----------------|---------------|----------------|--|--|
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (4) The student describes the historical, current, and future significance of the small engine technology industry. The student is expected to: | (A) describe emerging technologies and their impact on the small engine technology industry | (i) describe emerging technologies | Student/Teacher | Narrative | 9781614592105 | Emerging Technologies in the Engine Service Industry | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Emerging Technology | Emerging Technologies in the Engine Service Industry |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (4) The student describes the historical, current, and future significance of the small engine technology industry. The student is expected to: | (A) describe emerging technologies and their impact on the small engine technology industry | (ii) describe [emerging technologies] impact on the small engine technology industry | Student/Teacher | Narrative | 9781614592105 | Emerging Technologies in the Engine Service Industry | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Emerging Technology | Emerging Technologies in the Engine Service Industry |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|--|--|-----------------|---------------|----------------|--|--|
| (4) The student describes the historical, current, and future significance of the small engine technology industry. The student is expected to: | (B) compare and contrast issues affecting the small engine technology industry related to employment, safety, environmental, and regulatory issues | (i) compare and contrast issues affecting the small engine technology industry related to employment | Student/Teacher | Narrative | 9781614592105 | Emerging Technologies in the Engine Service Industry | Emerging Technologies in the Engine Service Industry |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Small Engine Industry Issues | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (4) The student describes the historical, current, and future significance of the small engine technology industry. The student is expected to: | (B) compare and contrast issues affecting the small engine technology industry related to employment, safety, environmental, and regulatory issues | (ii) compare and contrast issues affecting the small engine technology industry related to safety | Student/Teacher | Narrative | 9781614592105 | Emerging Technologies in the Engine Service Industry | Emerging Technologies in the Engine Service Industry |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Small Engine Industry Issues | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (4) The student describes the historical, current, and future significance of the small engine technology industry. The student is expected to: | (B) compare and contrast issues affecting the small engine technology industry related to employment, safety, environmental, and regulatory issues | (iii) compare and contrast issues affecting the small engine technology industry related to environmental issues | Student/Teacher | Narrative | 9781614592105 | Emerging Technologies in the Engine Service Industry | Emerging Technologies in the Engine Service Industry |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Small Engine Industry Issues | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|--|--|-----------------|---------------|----------------|----------|--|
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (4) The student describes the historical, current, and future significance of the small engine technology industry. The student is expected to: | (B) compare and contrast issues affecting the small engine technology industry related to employment, safety, environmental, and regulatory issues | (iv) compare and contrast issues affecting the small engine technology industry related to regulatory issues | Student/Teacher | Narrative | 9781614592105 | | Emerging Technologies in the Engine Service Industry |
| | | | Student/Teacher | Activity | 9781614592105 | | Project - Small Engine Industry Issues Emerging Technologies in the Engine Service Industry |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (4) The student describes the historical, current, and future significance of the small engine technology industry. The student is expected to: | (C) describe local and global market conditions and practices that impact the application and need of the small engine technology industry | (i) describe local market conditions that impact the application of the small engine technology industry | Student/Teacher | Narrative | 9781614592105 | | Emerging Technologies in the Engine Service Industry |
| | | | Student/Teacher | Activity | 9781614592105 | | Project - Small Engine Industry Issues Emerging Technologies in the Engine Service Industry |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (4) The student describes the historical, current, and future significance of the small engine technology industry. The student is expected to: | (C) describe local and global market conditions and practices that impact the application and need of the small engine technology industry | (ii) describe local market conditions that impact the need of the small engine technology industry | Student/Teacher | Narrative | 9781614592105 | | Emerging Technologies in the Engine Service Industry |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|--|---|-----------------|---------------|----------------|--|--|
| | | | Student/Teacher | Activity | 9781614592105 | Project - Small Engine Industry Issues | Emerging Technologies in the Engine Service Industry |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (4) The student describes the historical, current, and future significance of the small engine technology industry. The student is expected to: | (C) describe local and global market conditions and practices that impact the application and need of the small engine technology industry | (iii) describe the local market practices that impact the application of the small engine technology industry | Student/Teacher | Narrative | 9781614592105 | Emerging Technologies in the Engine Service Industry | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Small Engine Industry Issues | Emerging Technologies in the Engine Service Industry |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (4) The student describes the historical, current, and future significance of the small engine technology industry. The student is expected to: | (C) describe local and global market conditions and practices that impact the application and need of the small engine technology industry | (iv) describe the local market practices that impact the need of the small engine technology industry | Student/Teacher | Narrative | 9781614592105 | Emerging Technologies in the Engine Service Industry | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Small Engine Industry Issues | Emerging Technologies in the Engine Service Industry |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
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| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|--|--|-----------------|---------------|----------------|--|--|
| (4) The student describes the historical, current, and future significance of the small engine technology industry. The student is expected to: | (C) describe local and global market conditions and practices that impact the application and need of the small engine technology industry | (v) describe the global market conditions that impact the application of the small engine technology industry | Student/Teacher | Narrative | 9781614592105 | Emerging Technologies in the Engine Service Industry | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Small Engine Industry Issues | Emerging Technologies in the Engine Service Industry |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (4) The student describes the historical, current, and future significance of the small engine technology industry. The student is expected to: | (C) describe local and global market conditions and practices that impact the application and need of the small engine technology industry | (vi) describe the global market conditions that impact the need of the small engine technology industry | Student/Teacher | Narrative | 9781614592105 | Emerging Technologies in the Engine Service Industry | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Small Engine Industry Issues | Emerging Technologies in the Engine Service Industry |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (4) The student describes the historical, current, and future significance of the small engine technology industry. The student is expected to: | (C) describe local and global market conditions and practices that impact the application and need of the small engine technology industry | (vii) describe the global market practices that impact the application of the small engine technology industry | Student/Teacher | Narrative | 9781614592105 | Emerging Technologies in the Engine Service Industry | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Small Engine Industry Issues | Emerging Technologies in the Engine Service Industry |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
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| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|--|--|-----------------|---------------|----------------|---|--|
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (4) The student describes the historical, current, and future significance of the small engine technology industry. The student is expected to: | (C) describe local and global market conditions and practices that impact the application and need of the small engine technology industry | (viii) describe the global market practices that impact the need of the small engine technology industry | Student/Teacher | Narrative | 9781614592105 | Emerging Technologies in the Engine Service Industry | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Small Engine Industry Issues | Emerging Technologies in the Engine Service Industry |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (5) The student identifies the skills used to maintain and operate a small engine maintenance facility. The student is expected to: | (A) develop, evaluate, and perform preventative maintenance plans and systems to keep facility, tools, and equipment operating safely and properly | (i) develop preventative maintenance plans to keep facility operating safely and properly | Student/Teacher | Narrative | 9781614592105 | Developing & Managing Preventative Maintenance Plans | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Follow the Guidelines; Project - Set Up a Plan | Developing & Managing Preventative Maintenance Plans |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (5) The student identifies the skills used to maintain and operate a small engine maintenance facility. The student is expected to: | (A) develop, evaluate, and perform preventative maintenance plans and systems to keep facility, tools, and equipment operating safely and properly | (ii) develop preventative maintenance plans to keep tools operating safely and properly | Student/Teacher | Narrative | 9781614592105 | Developing & Managing Preventative Maintenance Plans | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|--|--|-----------------|---------------|----------------|---|--|
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Follow the Guidelines; Project - Set Up a Plan | Developing & Managing Preventative Maintenance Plans |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (5) The student identifies the skills used to maintain and operate a small engine maintenance facility. The student is expected to: | (A) develop, evaluate, and perform preventative maintenance plans and systems to keep facility, tools, and equipment operating safely and properly | (iii) develop preventative maintenance plans to keep equipment operating safely and properly | Student/Teacher | Narrative | 9781614592105 | Developing & Managing Preventative Maintenance Plans | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Follow the Guidelines; Project - Set Up a Plan | Developing & Managing Preventative Maintenance Plans |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine: Servicing & Troubleshooting | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (5) The student identifies the skills used to maintain and operate a small engine maintenance facility. The student is expected to: | (A) develop, evaluate, and perform preventative maintenance plans and systems to keep facility, tools, and equipment operating safely and properly | (iv) develop preventative maintenance systems to keep facility operating safely and properly | Student/Teacher | Narrative | 9781614592105 | Developing & Managing Preventative Maintenance Plans | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Follow the Guidelines; Project - Set Up a Plan | Developing & Managing Preventative Maintenance Plans |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|--|---|-----------------|---------------|----------------|---|--|
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (5) The student identifies the skills used to maintain and operate a small engine maintenance facility. The student is expected to: | (A) develop, evaluate, and perform preventative maintenance plans and systems to keep facility, tools, and equipment operating safely and properly | (v) develop preventative maintenance systems to keep tools operating safely and properly | Student/Teacher | Narrative | 9781614592105 | Developing & Managing Preventative Maintenance Plans | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Follow the Guidelines; Project - Set Up a Plan | Developing & Managing Preventative Maintenance Plans |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (5) The student identifies the skills used to maintain and operate a small engine maintenance facility. The student is expected to: | (A) develop, evaluate, and perform preventative maintenance plans and systems to keep facility, tools, and equipment operating safely and properly | (vi) develop preventative maintenance systems to keep equipment operating safely and properly | Student/Teacher | Narrative | 9781614592105 | Developing & Managing Preventative Maintenance Plans | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Follow the Guidelines; Project - Set Up a Plan | Developing & Managing Preventative Maintenance Plans |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine: Servicing & Troubleshooting | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|--|--|-----------------|---------------|----------------|---|--|
| (5) The student identifies the skills used to maintain and operate a small engine maintenance facility. The student is expected to: | (A) develop, evaluate, and perform preventative maintenance plans and systems to keep facility, tools, and equipment operating safely and properly | (vii) evaluate preventative maintenance plans to keep facility operating safely and properly | Student/Teacher | Narrative | 9781614592105 | Developing & Managing Preventative Maintenance Plans | Developing & Managing Preventative Maintenance Plans |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Follow the Guidelines; Project - Set Up a Plan | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (5) The student identifies the skills used to maintain and operate a small engine maintenance facility. The student is expected to: | (A) develop, evaluate, and perform preventative maintenance plans and systems to keep facility, tools, and equipment operating safely and properly | (viii) evaluate preventative maintenance plans to keep tools operating safely and properly | Student/Teacher | Narrative | 9781614592105 | Developing & Managing Preventative Maintenance Plans | Developing & Managing Preventative Maintenance Plans |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Follow the Guidelines; Project - Set Up a Plan | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (5) The student identifies the skills used to maintain and operate a small engine maintenance facility. The student is expected to: | (A) develop, evaluate, and perform preventative maintenance plans and systems to keep facility, tools, and equipment operating safely and properly | (ix) evaluate preventative maintenance plans to keep equipment operating safely and properly | Student/Teacher | Narrative | 9781614592105 | Developing & Managing Preventative Maintenance Plans | Developing & Managing Preventative Maintenance Plans |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Follow the Guidelines; Project - Set Up a Plan | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
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| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|--|--|-----------------|---------------|----------------|----------|---|
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (5) The student identifies the skills used to maintain and operate a small engine maintenance facility. The student is expected to: | (A) develop, evaluate, and perform preventative maintenance plans and systems to keep facility, tools, and equipment operating safely and properly | (x) evaluate preventative maintenance systems to keep facility operating safely and properly | Student/Teacher | Narrative | 9781614592105 | | Developing & Managing Preventative Maintenance Plans |
| | | | Student/Teacher | Activity | 9781614592105 | | Activity - Follow the Guidelines; Project - Set Up a Plan Developing & Managing Preventative Maintenance Plans |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (5) The student identifies the skills used to maintain and operate a small engine maintenance facility. The student is expected to: | (A) develop, evaluate, and perform preventative maintenance plans and systems to keep facility, tools, and equipment operating safely and properly | (xi) evaluate preventative maintenance systems to keep tools operating safely and properly | Student/Teacher | Narrative | 9781614592105 | | Developing & Managing Preventative Maintenance Plans |
| | | | Student/Teacher | Activity | 9781614592105 | | Activity - Follow the Guidelines; Project - Set Up a Plan Developing & Managing Preventative Maintenance Plans |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location | |
|---|--|---|-----------------|---------------|----------------|---|--|--|
| (5) The student identifies the skills used to maintain and operate a small engine maintenance facility. The student is expected to: | (A) develop, evaluate, and perform preventative maintenance plans and systems to keep facility, tools, and equipment operating safely and properly | (xii) evaluate preventative maintenance systems to keep equipment operating safely and properly | Student/Teacher | Narrative | 9781614592105 | Developing & Managing Preventative Maintenance Plans | Developing & Managing Preventative Maintenance Plans | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Follow the Guidelines; Project - Set Up a Plan | | |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine: Servicing & Troubleshooting | | |
| | | | Student/Teacher | | | | | |
| | | | Teacher Only | | | | | |
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| | | | Teacher Only | | | | | |
| Teacher Only | | | | | | | | |
| (5) The student identifies the skills used to maintain and operate a small engine maintenance facility. The student is expected to: | (A) develop, evaluate, and perform preventative maintenance plans and systems to keep facility, tools, and equipment operating safely and properly | (xiii) perform preventative maintenance plans to keep facility operating safely and properly | Student/Teacher | Narrative | 9781614592105 | Developing & Managing Preventative Maintenance Plans | Developing & Managing Preventative Maintenance Plans | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Follow the Guidelines; Project - Set Up a Plan | | |
| | | | Student/Teacher | Narrative | 9781614592105 | | | |
| | | | Student/Teacher | | | | | |
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| Teacher Only | | | | | | | | |
| (5) The student identifies the skills used to maintain and operate a small engine maintenance facility. The student is expected to: | (A) develop, evaluate, and perform preventative maintenance plans and systems to keep facility, tools, and equipment operating safely and properly | (xiv) perform preventative maintenance plans to keep tools operating safely and properly | Student/Teacher | Narrative | 9781614592105 | Developing & Managing Preventative Maintenance Plans | Developing & Managing Preventative Maintenance Plans | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Follow the Guidelines; Project - Set Up a Plan | | |
| | | | Student/Teacher | Narrative | 9781614592105 | | | |
| | | | Student/Teacher | | | | | |
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| Teacher Only | | | | | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|--|---|-----------------|---------------|----------------|----------|---|
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (5) The student identifies the skills used to maintain and operate a small engine maintenance facility. The student is expected to: | (A) develop, evaluate, and perform preventative maintenance plans and systems to keep facility, tools, and equipment operating safely and properly | (vi) perform preventative maintenance plans to keep equipment operating safely and properly | Student/Teacher | Narrative | 9781614592105 | | Developing & Managing Preventative Maintenance Plans |
| | | | Student/Teacher | Activity | 9781614592105 | | Activity - Follow the Guidelines; Project - Set Up a Plan Developing & Managing Preventative Maintenance Plans |
| | | | Student/Teacher | Narrative | 9781614592105 | | Four-Stroke Engine: Servicing & Troubleshooting |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (5) The student identifies the skills used to maintain and operate a small engine maintenance facility. The student is expected to: | (A) develop, evaluate, and perform preventative maintenance plans and systems to keep facility, tools, and equipment operating safely and properly | (xvi) perform preventative maintenance systems to keep facility operating safely and properly | Student/Teacher | Narrative | 9781614592105 | | Developing & Managing Preventative Maintenance Plans |
| | | | Student/Teacher | Activity | 9781614592105 | | Activity - Follow the Guidelines; Project - Set Up a Plan Developing & Managing Preventative Maintenance Plans |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|---|--|-----------------|---------------|----------------|---|--|
| (5) The student identifies the skills used to maintain and operate a small engine maintenance facility. The student is expected to: | (A) develop, evaluate, and perform preventative maintenance plans and systems to keep facility, tools, and equipment operating safely and properly | (xvii) perform preventative maintenance systems to keep tools operating safely and properly | Student/Teacher | Narrative | 9781614592105 | Developing & Managing Preventative Maintenance Plans | Developing & Managing Preventative Maintenance Plans |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Follow the Guidelines; Project - Set Up a Plan | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (5) The student identifies the skills used to maintain and operate a small engine maintenance facility. The student is expected to: | (A) develop, evaluate, and perform preventative maintenance plans and systems to keep facility, tools, and equipment operating safely and properly | (xviii) perform preventative maintenance systems to keep equipment operating safely and properly | Student/Teacher | Narrative | 9781614592105 | Developing & Managing Preventative Maintenance Plans | Developing & Managing Preventative Maintenance Plans |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Follow the Guidelines; Project - Set Up a Plan | |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine: Servicing & Troubleshooting | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (5) The student identifies the skills used to maintain and operate a small engine maintenance facility. The student is expected to: | (B) complete repair orders and paperwork related to the small engine technology industry to properly document work needed or completed such as ensuring proper customer communication and authorization | (i) complete repair orders | Student/Teacher | Narrative | 9781614592105 | Engine Industry Documents | |
| | | | Student/Teacher | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|---|---|-----------------|---------------|----------------|--|---------------------------|
| | | | Student/Teacher | Activity | 9781614592105 | Assessment II - Repair Orders; Assessment II - Repair Orders Answer Key; Project - | Engine Industry Documents |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (5) The student identifies the skills used to maintain and operate a small engine maintenance facility. The student is expected to: | (B) complete repair orders and paperwork related to the small engine technology industry to properly document work needed or completed such as ensuring proper customer communication and authorization | (ii) complete paperwork related to the small engine technology industry to properly document work needed or completed | Student/Teacher | Narrative | 9781614592105 | Engine Industry Documents | |
| | | | Student/Teacher | Activity | 9781614592105 | Assessment II - Repair Orders; Assessment II - Repair Orders Answer Key; Project - | Engine Industry Documents |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (5) The student identifies the skills used to maintain and operate a small engine maintenance facility. The student is expected to: | (C) estimate parts and labor costs on repair orders for small engine repair | (i) estimate parts costs on repair orders for small engine repair | Student/Teacher | Narrative | 9781614592105 | Engine Industry Documents | |
| | | | Student/Teacher | Activity | 9781614592105 | Assessment II - Repair Orders; Assessment II - Repair Orders Answer Key; Project - | Engine Industry Documents |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|---|--|-----------------|---------------|----------------|--|---------------------------|
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (5) The student identifies the skills used to maintain and operate a small engine maintenance facility. The student is expected to: | (C) estimate parts and labor costs on repair orders for small engine repair | (ii) estimate labor costs on repair orders for small engine repair | Student/Teacher | Narrative | 9781614592105 | Engine Industry Documents | |
| | | | Student/Teacher | Activity | 9781614592105 | Assessment II - Repair Orders; Assessment II - Repair Orders Answer Key; Project - | Engine Industry Documents |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
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| | | | Teacher Only | | | | |
| (5) The student identifies the skills used to maintain and operate a small engine maintenance facility. The student is expected to: | (D) describe common business management principles such as technician productivity, shop efficiency, and profit margins | (i) describe common business management principles | Student/Teacher | Narrative | 9781614592105 | Engine Industry Documents | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Good vs. Bad Business Management | Engine Industry Documents |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|---|---------------------------------------|-----------------|---------------|----------------|--|---------------------------|
| (5) The student identifies the skills used to maintain and operate a small engine maintenance facility. The student is expected to: | (E) locate, read, and interpret service repair information such as small engine schematics, charts, and technical bulletins | (i) locate service repair information | Student/Teacher | Narrative | 9781614592105 | Engine Industry Documents | |
| | | | Student/Teacher | Activity | 9781614592105 | Assessment I - Engine Schematics & Diagrams; Assessment I - Engine Schematics & Diagrams Answer Key; Project - Engine Repair | Engine Industry Documents |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
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| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|---|--|-----------------|---------------|----------------|---|---------------------------|
| (5) The student identifies the skills used to maintain and operate a small engine maintenance facility. The student is expected to: | (E) locate, read, and interpret service repair information such as small engine schematics, charts, and technical bulletins | (ii) read service repair information | Student/Teacher | Narrative | 9781614592105 | Engine Industry Documents | |
| | | | Student/Teacher | Activity | 9781614592105 | Assessment I - Engine Schematics & Diagrams; Assessment I - Engine Schematics & Diagrams Answer Key; Project - Engine Repair | Engine Industry Documents |
| | | | Student/Teacher | Narrative | 9781615492105 | Four-Stroke Engine Series | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (5) The student identifies the skills used to maintain and operate a small engine maintenance facility. The student is expected to: | (E) locate, read, and interpret service repair information such as small engine schematics, charts, and technical bulletins | (iii) interpret service repair information | Student/Teacher | Narrative | 9781614592105 | Engine Industry Documents | |
| | | | Student/Teacher | Activity | 9781614592105 | Assessment I - Engine Schematics & Diagrams; Assessment I - Engine Schematics & Diagrams Answer Key; Assessment III - Graphical Representation; Assessment III - Graphical Representation Answer Key; Project - Engine Repair Proposal; Activity - Creating & | Engine Industry Documents |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|--|--|-----------------|---------------|----------------|----------|---|
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (6) The student applies appropriate research methods to small engine technology topics. The student is expected to: | (A) use a variety of resources to research, trouble shoot, and diagnosis concerns and failures | (i) use a variety of resources to research concerns | Student/Teacher | Narrative | 9781614592105 | | Research & Development in the Engine Service Industry |
| | | | Student/Teacher | Activity | 9781614592105 | | Project - Engine Scientific Research Research & Development in the Engine Service Industry |
| | | | Student/Teacher | Narrative | 9781614592105 | | Four-Stroke Engine |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (6) The student applies appropriate research methods to small engine technology topics. The student is expected to: | (A) use a variety of resources to research, trouble shoot, and diagnosis concerns and failures | (ii) use a variety of resources to troubleshoot concerns | Student/Teacher | Narrative | 9781614592105 | | Research & Development in the Engine Service Industry |
| | | | Student/Teacher | Activity | 9781614592105 | | Project - Engine Scientific Research Research & Development in the Engine Service Industry |
| | | | Student/Teacher | Narrative | 9781614592105 | | Four-Stroke Engine Series |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|--|---|-----------------|---------------|----------------|---|---|
| (6) The student applies appropriate research methods to small engine technology topics. The student is expected to: | (A) use a variety of resources to research, trouble shoot, and diagnosis concerns and failures | (iii) use a variety of resources to diagnose concerns | Student/Teacher | Narrative | 9781614592105 | Research & Development in the Engine Service Industry | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Engine Scientific Research | Research & Development in the Engine Service Industry |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine Series | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (6) The student applies appropriate research methods to small engine technology topics. The student is expected to: | (A) use a variety of resources to research, trouble shoot, and diagnosis concerns and failures | (iv) use a variety of resources to research failures | Student/Teacher | Narrative | 9781614592105 | Research & Development in the Engine Service Industry | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Engine Scientific Research | Research & Development in the Engine Service Industry |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine Series | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (6) The student applies appropriate research methods to small engine technology topics. The student is expected to: | (A) use a variety of resources to research, trouble shoot, and diagnosis concerns and failures | (v) use a variety of resources to troubleshoot failures | Student/Teacher | Narrative | 9781614592105 | Research & Development in the Engine Service Industry | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Engine Scientific Research | Research & Development in the Engine Service Industry |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine | |
| | | | Student/Teacher | | | | |
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| | | | Student/Teacher | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|--|--|-----------------|---------------|----------------|---|---|
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (6) The student applies appropriate research methods to small engine technology topics. The student is expected to: | (A) use a variety of resources to research, trouble shoot, and diagnosis concerns and failures | (vi) use a variety of resources to diagnose failures | Student/Teacher | Narrative | 9781614592105 | Research & Development in the Engine Service Industry | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Engine Scientific Research | Research & Development in the Engine Service Industry |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine Series | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (6) The student applies appropriate research methods to small engine technology topics. The student is expected to: | (B) describe the application of the scientific method of research to small engine technology such as identifying a problem, establishing a procedure, performing direct and indirect observation, collecting and interpreting data, and drawing conclusions by verifying the complaint, determining the related symptoms, analyzing the symptoms, isolating the trouble, correcting the trouble, and checking for proper operation | (i) describe the application of the scientific method of research to small engine technology | Student/Teacher | Narrative | 9781614592105 | Research & Development in the Engine Service Industry | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Engine Scientific Research | Research & Development in the Engine Service Industry |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|--|---|-----------------|---------------|----------------|---------------------------|---------------------------|
| (7) The student applies problem-solving, mathematical, and organizational skills to maintain financial and logistical records. The student is expected to: | (A) develop project proposals | (i) develop project proposals | Student/Teacher | Narrative | 9781614592105 | Engine Industry Documents | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Engine Repair | Engine Industry Documents |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (7) The student applies problem-solving, mathematical, and organizational skills to maintain financial and logistical records. The student is expected to: | (B) develop and maintain records appropriate to the small engine technology industry | (i) develop records appropriate to the small engine technology industry | Student/Teacher | Narrative | 9781614592105 | Engine Industry Documents | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Engine Repair | Engine Industry Documents |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (7) The student applies problem-solving, mathematical, and organizational skills to maintain financial and logistical records. The student is expected to: | (B) develop and maintain records appropriate to the small engine technology industry | (ii) maintain records appropriate to the small engine technology industry | Student/Teacher | Narrative | 9781614592105 | Engine Industry Documents | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Engine Repair | Engine Industry Documents |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|---|------------------------------|-----------------|---------------|----------------|---|---------------------------|
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (7) The student applies problem-solving, mathematical, and organizational skills to maintain financial and logistical records. The student is expected to: | (C) collect and organize data in graphs, tables, and charts | (i) collect data | Student/Teacher | Narrative | 9781614592105 | Engine Industry Documents | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Creating & Interpreting Graphs | Engine Industry Documents |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (7) The student applies problem-solving, mathematical, and organizational skills to maintain financial and logistical records. The student is expected to: | (C) collect and organize data in graphs, tables, and charts | (ii) organize data in graphs | Student/Teacher | Narrative | 9781614592105 | Engine Industry Documents | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Creating & Interpreting Graphs | Engine Industry Documents |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|--|------------------------------|-----------------|---------------|----------------|---|---------------------------|
| (7) The student applies problem-solving, mathematical, and organizational skills to maintain financial and logistical records. The student is expected to: | (C) collect and organize data in graphs, tables, and charts | (ii) organize data in tables | Student/Teacher | Narrative | 9781614592105 | Engine Industry Documents | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Creating & Interpreting Graphs | Engine Industry Documents |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (7) The student applies problem-solving, mathematical, and organizational skills to maintain financial and logistical records. The student is expected to: | (C) collect and organize data in graphs, tables, and charts | (iv) organize data in charts | Student/Teacher | Narrative | 9781614592105 | Engine Industry Documents | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Creating & Interpreting Graphs | Engine Industry Documents |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (7) The student applies problem-solving, mathematical, and organizational skills to maintain financial and logistical records. The student is expected to: | (D) analyze and interpret data from graphs, tables, and charts | (i) analyze data from graphs | Student/Teacher | Narrative | 9781614592105 | Engine Industry Documents | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Creating & Interpreting Graphs | Engine Industry Documents |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|--|--------------------------------|-----------------|---------------|----------------|---|---------------------------|
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (7) The student applies problem-solving, mathematical, and organizational skills to maintain financial and logistical records. The student is expected to: | (D) analyze and interpret data from graphs, tables, and charts | (ii) analyze data from tables | Student/Teacher | Narrative | 9781614592105 | Engine Industry Documents | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Creating & Interpreting Graphs | Engine Industry Documents |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (7) The student applies problem-solving, mathematical, and organizational skills to maintain financial and logistical records. The student is expected to: | (D) analyze and interpret data from graphs, tables, and charts | (iii) analyze data from charts | Student/Teacher | Narrative | 9781614592105 | Engine Industry Documents | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Creating & Interpreting Graphs | Engine Industry Documents |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|--|---------------------------------|-----------------|---------------|----------------|---|---------------------------|
| (7) The student applies problem-solving, mathematical, and organizational skills to maintain financial and logistical records. The student is expected to: | (D) analyze and interpret data from graphs, tables, and charts | (iv) interpret data from graphs | Student/Teacher | Narrative | 9781614592105 | Engine Industry Documents | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Creating & Interpreting Graphs | Engine Industry Documents |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (7) The student applies problem-solving, mathematical, and organizational skills to maintain financial and logistical records. The student is expected to: | (D) analyze and interpret data from graphs, tables, and charts | (v) Intrepret data from tables | Student/Teacher | Narrative | 9781614592105 | Engine Industry Documents | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Creating & Interpreting Graphs | Engine Industry Documents |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (7) The student applies problem-solving, mathematical, and organizational skills to maintain financial and logistical records. The student is expected to: | (D) analyze and interpret data from graphs, tables, and charts | (vi) interpret data from charts | Student/Teacher | Narrative | 9781614592105 | Engine Industry Documents | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Creating & Interpreting Graphs | Engine Industry Documents |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|--|--|-----------------|---------------|----------------|--|---|
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (7) The student applies problem-solving, mathematical, and organizational skills to maintain financial and logistical records. The student is expected to: | (E) use mathematical formulas to perform engine calculations such as calculating cylinder volume, engine performance and enhancement, engine displacement, combustion chamber volume, compressed head gasket volume, piston and deck height, piston dish volume, dome volume, cylinder volume, compression ratio, and horsepower | (j) use mathematical formulas to perform engine calculations | Student/Teacher | Narrative | 9781614592105 | | Math & Measurement in Engine Technology |
| | | | Student/Teacher | Activity | 9781614592105 | Assessment VII - Formulas; Assessment VII - Formulas Answer Key; Project - | Math & Measurement in Engine Technology |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (7) The student applies problem-solving, mathematical, and organizational skills to maintain financial and logistical records. The student is expected to: | (F) use mathematical formulas to perform electrical calculations such as calculating and measuring electrical resistance, current, and voltage in engines | (i) use mathematical formulas to perform electrical calculations | Student/Teacher | Narrative | 9781614592105 | | Math & Measurement in Engine Technology |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Engine Calculations | Math & Measurement in Engine Technology |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|---|--|-----------------|---------------|----------------|---|--|
| (7) The student applies problem-solving, mathematical, and organizational skills to maintain financial and logistical records. The student is expected to: | (G) apply Ohm's law to small engine electrical circuits using a digital multimeter | (i) apply Ohm's law to small engine electrical circuits using a digital multimeter | Student/Teacher | Narrative | 9781614592105 | Math & Measurement in Engine Technology | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Engine Calculations | Math & Measurement in Engine Technology |
| | | | Student/Teacher | Narrative | 9781614592105 | Electronic Applications | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Ohm's Law; Activity - Ohm's Law Answer Key | Electronic Applications |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| (7) The student applies problem-solving, mathematical, and organizational skills to maintain financial and logistical records. The student is expected to: | (H) apply electrical principles to diagnose and repair small engine components such as generators, electric motors, power supplies, electronic amplifiers, relays, and circuits | (i) apply electrical principles to diagnose small engine components | Student/Teacher | Narrative | 9781614592105 | Electronic Applications | |
| | | | Student/Teacher | Narrative | 9781614592105 | Small Engine Technology: Understanding Basic Systems | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Electrical Systems | Small Engine Technology: Understanding Basic Systems |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine: Electrical System | |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine: Servicing & Troubleshooting | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | | | | | |
| | | | | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|---|--|-----------------|---------------|----------------|--|--|
| (7) The student applies problem-solving, mathematical, and organizational skills to maintain financial and logistical records. The student is expected to: | (H) apply electrical principles to diagnose and repair small engine components such as generators, electric motors, power supplies, electronic amplifiers, relays, and circuits | (ii) apply electrical principles to repair small engine components | Student/Teacher | Narrative | 9781614592105 | Electronic Applications | |
| | | | Student/Teacher | Narrative | 9781614592105 | Small Engine Technology: Understanding Basic Systems | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Electrical Systems; Project - Repairing Small Gas Engines | Small Engine Technology: Understanding Basic Systems |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine: Electrical System | |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine: Servicing & Troubleshooting | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (8) The student uses information technology tools specific to the small engine technology industry to access, manage, integrate, and create information. The student is expected to: | (A) use personal management software such as email and Internet applications and word-processing, database, spreadsheet, presentation, collaborative, groupware, and virtual meeting software | (i) use personal management software | Student/Teacher | Narrative | 9781614592105 | Skills for Real World Survival | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Collaborative Software; Activity - Collaborative Software Teacher Instruction Sheet | Skills for Real World Survival |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|--|---|-----------------|---------------|----------------|---|--|
| (8) The student uses information technology tools specific to the small engine technology industry to access, manage, integrate, and create information. The student is expected to: | (B) discuss Geographic Information Systems and Global Positioning Systems applications | (i) discuss Geographic Information Systems applications | Student/Teacher | Narrative | 9781614592105 | Geographic Information Systems(GIS) and Global Positioning Systems (GPS) | Geographic Information Systems(GIS) and Global Positioning Systems (GPS) |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - GIS Notecards | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (8) The student uses information technology tools specific to the small engine technology industry to access, manage, integrate, and create information. The student is expected to: | (B) discuss Geographic Information Systems and Global Positioning Systems applications | (ii) discuss Global Positioning Systems applications | Student/Teacher | Narrative | 9781614592105 | Geographic Information Systems(GIS) and Global Positioning Systems (GPS) | Geographic Information Systems(GIS) and Global Positioning Systems (GPS) |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Land, Sea & | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (8) The student uses information technology tools specific to the small engine technology industry to access, manage, integrate, and create information. The student is expected to: | (C) use other computer-based equipment | (i) use other computer-based equipment | Student/Teacher | Narrative | 9781614592105 | Emerging Technologies in the Engine Service Industry | Emerging Technologies in the Engine Service Industry |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Computer-Based Equipment | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|---|---|-----------------|---------------|----------------|---|---|
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (9) The student demonstrates advanced technical knowledge and skills of small engine technology. The student is expected to: | (A) demonstrate the use and application of small engines and components | (i) demonstrate the use of small engines | Student/Teacher | Narrative | 9781614592105 | Principles of Internal Combustions Engines | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Engine Use & Application | Principles of Internal Combustions Engines |
| | | | Student/Teacher | Narrative | 9781614592105 | Small Gas Engine: Disassembly Procedures | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Real World Uses | Small Gas Engine: Disassembly Procedures |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine Series | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (9) The student demonstrates advanced technical knowledge and skills of small engine technology. The student is expected to: | (A) demonstrate the use and application of small engines and components | (ii) demonstrate the use of [small engine] components | Student/Teacher | Narrative | 9781614592105 | Principles of Internal Combustions Engines | |
| | | | Student/Teacher | Activity | 9781614592105 | Student Handout - Engine Components; Activity - Identification; Activity - Identification Answer Key | Principles of Internal Combustions Engines |
| | | | Student/Teacher | Narrative | 9781614592105 | Small Gas Engine: Disassembly Procedures | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Word Bank & Parts ID; Activity - Word Bank & Parts ID | Small Gas Engine: Disassembly Procedures |
| | | | Student/Teacher | Narrative | 9781614592105 | Small Gas Engine: Assembly Procedures; Project - Engine Parts Research; Project - Engine Parts Research Teacher Instruction Sheet | Small Gas Engine Procedures: Assembly; PLEASE NOTE: Due to space limitations, the narrative and associated activity are listed on one line. Several lessons and corresponding activities satisfy this standard. |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|---|---|-----------------|---------------|----------------|--|--|
| | | | Teacher Only | Narrative | 9781614592105 | Four-Stroke Engine Series | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (9) The student demonstrates advanced technical knowledge and skills of small engine technology. The student is expected to: | (A) demonstrate the use and application of small engines and components | (iii) demonstrate the application of small engines | Student/Teacher | Narrative | 9781614592105 | Principles of Internal Combustions Engines | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Engine Use & Application | Principles of Internal Combustions Engines |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine Series | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (9) The student demonstrates advanced technical knowledge and skills of small engine technology. The student is expected to: | (A) demonstrate the use and application of small engines and components | (iv) demonstrate the application of [small engine] components | Student/Teacher | Narrative | 9781614592105 | Principles of Internal Combustion Engines | |
| | | | Student/Teacher | Activity | 9781614592105 | Student Handout - Engine Components; Activity - Identification; Activity - Identification Answer Key | Principles of Internal Combustion Engines |
| | | | Student/Teacher | Narrative | 9781614592105 | Small Gas Engine: Assembly Procedures | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Engine Parts Research; Project - Engine Parts Research Teacher Instruction Sheet | Small Gas Engine: Assembly Procedures |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine Series | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|---|---|-----------------|---------------|----------------|--|--|
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (9) The student demonstrates advanced technical knowledge and skills of small engine technology. The student is expected to: | (B) demonstrate the components of electrical-electronic systems | (i) demonstrate the components of electrical-electronic systems | Student/Teacher | Narrative | 9781614592105 | Electronic Applications | |
| | | | Student/Teacher | Narrative | 9781614592105 | Small Engine Technology: Understanding Basic Systems | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Electrical Systems | Small Engine Technology: Understanding Basic Systems |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine: Electrical System | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|---|---|-----------------|---------------|----------------|---|--|
| (9) The student demonstrates advanced technical knowledge and skills of small engine technology. The student is expected to: | (C) demonstrate knowledge of engine designs, components, and applications | (i) demonstrate knowledge of engine designs | Student/Teacher | Narrative | 9781614592105 | Principles of Internal Combustions Engines | |
| | | | Student/Teacher | Activity | 9781614592105 | Assessment II - Designs, Components & Applications; Assessment II - Designs, Components & Applications Answer Key; Activity - Four-Stroke Engine Series | Principles of Internal Combustions Engines |
| | | | Student/Teacher | Narrative | 9781614592105 | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (9) The student demonstrates advanced technical knowledge and skills of small engine technology. The student is expected to: | (C) demonstrate knowledge of engine designs, components, and applications | (ii) demonstrate knowledge of engine components | Student/Teacher | Narrative | 9781614592105 | Principles of Internal Combustions Engines | |
| | | | Student/Teacher | Activity | 9781614592105 | Student Handout - Engine Components; Activity - Identification; Activity - Identification Answer Key | Principles of Internal Combustions Engines |
| | | | Student/Teacher | Narrative | 9781614592105 | Small Gas Engine: Disassembly Procedures | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Word Bank & Parts ID; Activity - Word Bank & Parts ID | Small Gas Engine: Disassembly Procedures |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|---|--|-----------------|---------------|----------------|---|---|
| | | | Student/Teacher | Narrative | 9781614592105 | Small Gas Engine: Assembly Procedures; Project - Engine Parts Research; Project - Engine Parts Research Teacher Instruction Sheet | Small Gas Engine Procedures: Assembly; PLEASE NOTE: Due to space limitations, the narrative and associated activity are listed on one line. Several lessons and corresponding activities satisfy this standard. |
| | | | Teacher Only | Narrative | 9781614592105 | Four-Stroke Engine Series | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (9) The student demonstrates advanced technical knowledge and skills of small engine technology. The student is expected to: | (C) demonstrate knowledge of engine designs, components, and applications | (iii) demonstrate knowledge of engine applications | Student/Teacher | Narrative | 9781614592105 | Principles of Internal Combustions Engines | |
| | | | Student/Teacher | Activity | 9781614592105 | Assessment II - Designs, Components & Applications; Assessment II - Designs, Components & Applications Answer Key; Activity - | Principles of Internal Combustions Engines |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine Series | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--|--|---|-----------------|---------------|----------------|---|--|
| (9) The student demonstrates advanced technical knowledge and skills of small engine technology. The student is expected to: | (D) demonstrate the correct use of engine measuring tools and test equipment | (i) demonstrate the correct use of engine measuring tools | Student/Teacher | Narrative | 9781614592105 | Small Engine Tools & Equipment: Identification and Operation | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Reading a Micrometer; Activity - Reading a Micrometer Answer Key | Small Engine Tools & Equipment: Identification and Operation |
| | | | Student/Teacher | Narrative | 9781614592105 | Small Engine Technology: Troubleshooting, Repair, Service and Maintenance | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| (9) The student demonstrates advanced technical knowledge and skills of small engine technology. The student is expected to: | (D) demonstrate the correct use of engine measuring tools and test equipment | (ii) demonstrate the correct use of engine test equipment | Student/Teacher | Narrative | 9781614592105 | Small Engine Tools & Equipment: Identification and Operation | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Follow the Guidelines | Small Engine Tools & Equipment: Identification and Operation |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|---|--------------------------------|-----------------|---------------|----------------|--|---|
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (A) troubleshoot and repair small engines | (i) troubleshoot small engines | Student/Teacher | Narrative | 9781614592105 | Small Engine Technology: Troubleshooting, Repair, Service and Maintenance | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Which Tool?; Activity - Which Tool? Answer Key; Activity - Carburetor Disassembly; Answer Key; Activity - Carburetor Disassembly Teacher Instruction Sheet; Project - Service | Small Engine Technology: Troubleshooting, Repair, Service and Maintenance |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine: Servicing & Troubleshooting | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (A) troubleshoot and repair small engines | (ii) repair small engines | Student/Teacher | Narrative | 9781614592105 | Small Engine Technology: Troubleshooting, Repair, Service and Maintenance | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Which Tool?; Activity - Which Tool? Answer Key; Activity - Carburetor Disassembly; Answer Key; Activity - Carburetor Disassembly Teacher Instruction Sheet; Project - Service | Small Engine Technology: Troubleshooting, Repair, Service and Maintenance |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine: Servicing & Troubleshooting | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|---|--|-----------------|---------------|----------------|----------|---|
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (B) perform preventative maintenance on small engines | (i) perform preventative maintenance on small engines | Student/Teacher | Narrative | 9781614592105 | | Small Engine Technology: Troubleshooting, Repair, Service and Maintenance |
| | | | Student/Teacher | Activity | 9781614592105 | | Small Engine Technology: Troubleshooting, Repair, Service and Maintenance |
| | | | Student/Teacher | Narrative | 9781614592105 | | Small Engine Technology: Troubleshooting, Repair, Service and Maintenance |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (C) assess the proper fuel mixtures and analyze the efficiency of various fuels used in small engines | (j) assess the proper fuel mixtures of various fuels used in small engines | Student/Teacher | Narrative | 9781614592105 | | Small Engine Technology: Understanding Basic Systems |
| | | | Student/Teacher | Activity | 9781614592105 | | Small Engine Technology: Understanding Basic Systems |
| | | | Student/Teacher | Narrative | 9781614592105 | | Small Engine Technology: Understanding Basic Systems |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|--|--|-----------------|---------------|----------------|--|--|
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (C) assess the proper fuel mixtures and analyze the efficiency of various fuels used in small engines | (ii) analyze the efficiency of various fuels used in small engines | Student/Teacher | Narrative | 9781614592105 | Small Engine Technology: Understanding Basic Systems | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Fuel Efficiency | Small Engine Technology: Understanding Basic Systems |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine: Fuel System | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (D) distinguish between valve arrangement positions and analyze valve timing with respect to crankshaft rotation | (i) distinguish between valve arrangement positions | Student/Teacher | Narrative | 9781614592105 | Principles of Internal Combustion Engines | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Valve Arrangement | Principles of Internal Combustion Engines |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine: Overview | |
| | | | Student/Teacher | Narrative | 9781615492105 | Four-Stroke Engine: Components & Operation | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|--|--|---|--|---|---|--|
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (D) distinguish between valve arrangement positions and analyze valve timing with respect to crankshaft rotation | (i) analyze valve timing with respect to crankshaft rotation | Student/Teacher | Narrative | 9781614592105 | Principles of Internal Combustion Engines | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Valve Arrangement | Principles of Internal Combustion Engines |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine: Overview | |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine: Components & Operation | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only Teacher Only Teacher Only Teacher Only | | | | |
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (E) perform preventative maintenance and service engine lubrication, cooling, starting, fuel, and ignition systems and associated fluids and filters | (i) perform preventative maintenance | Student/Teacher | Narrative | 9781614592105 | Developing & Managing Preventative Maintenance Plans | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Follow the Guidelines; Project - Set Up a Plan | Developing & Managing Preventative Maintenance Plans |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine: Servicing & Troubleshooting | |
| | | | Student/Teacher Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only Teacher Only Teacher Only Teacher Only | | | | |
| | | | (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (E) perform preventative maintenance and service engine lubrication, cooling, starting, fuel, and ignition systems and associated fluids and filters | (ii) service engine lubrication systems and associated fluids and filters | Student/Teacher | Narrative |
| Student/Teacher | Activity | 9781614592105 | | | | Project - Repairing Small Gas Engines | Small Engine Technology: Understanding Basic Systems |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|--|---|-----------------|---------------|----------------|--|--|
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine: Servicing & Troubleshooting | |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine: Components & Operation | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (E) perform preventative maintenance and service engine lubrication, cooling, starting, fuel, and ignition systems and associated fluids and filters | (iii) service cooling systems and associated fluids and filters | Student/Teacher | Narrative | 9781614592105 | Small Engine Technology: Understanding Basic Systems | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Repairing Small Gas Engines | Small Engine Technology: Understanding Basic Systems |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine: Servicing & Troubleshooting | |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine: Components & Operation | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (E) perform preventative maintenance and service engine lubrication, cooling, starting, fuel, and ignition systems and associated fluids and filters | (iv) service starting systems and associated fluids and filters | Student/Teacher | Narrative | 9781614592105 | Small Engine Technology: Understanding Basic Systems | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Repairing Small Gas Engines | Small Engine Technology: Understanding Basic Systems |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine: Electrical System | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--------------------------------|---------------------|----------|-----------------|---------------|----------------|---|-------------------|
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine: Servicing & Troubleshooting | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|--|---|-----------------|---------------|----------------|--|--|
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (E) perform preventative maintenance and service engine lubrication, cooling, starting, fuel, and ignition systems and associated fluids and filters | (v) service fuel systems and associated fluids and filters | Student/Teacher | Narrative | 9781614592105 | Small Engine Technology: Understanding Basic Systems | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Repairing Small Gas Engines | Small Engine Technology: Understanding Basic Systems |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine: Fuel System | |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine: Servicing & Troubleshooting | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (E) perform preventative maintenance and service engine lubrication, cooling, starting, fuel, and ignition systems and associated fluids and filters | (vi) service ignition systems and associated fluids and filters | Student/Teacher | Narrative | 9781614592105 | Small Engine Technology: Understanding Basic Systems | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - Repairing Small Gas Engines | Small Engine Technology: Understanding Basic Systems |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine: Electrical System | |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine: Servicing & Troubleshooting | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (F) perform routine installations, inspections, adjustments, and maintenance on small engine testing tools and equipment | (i) perform routine installations on small engine testing tools | Student/Teacher | Narrative | 9781614592105 | Small Engine Tools and Equipment: Identification and Operation | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|--|---|-----------------|---------------|----------------|--|--|
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Follow the Guidelines | Small Engine Tools and Equipment: Identification and Operation |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (F) perform routine installations, inspections, adjustments, and maintenance on small engine testing tools and equipment | (ii) perform routine inspections on small engine testing tools | Student/Teacher | Narrative | 9781614592105 | Small Engine Tools and Equipment: Identification and Operation | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Follow the Guidelines | Small Engine Tools and Equipment: Identification and Operation |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (F) perform routine installations, inspections, adjustments, and maintenance on small engine testing tools and equipment | (iii) perform routine adjustments on small engine testing tools | Student/Teacher | Narrative | 9781614592105 | Small Engine Tools and Equipment: Identification and Operation | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Follow the Guidelines | Small Engine Tools and Equipment: Identification and Operation |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|--|--|-----------------|---------------|----------------|--|--|
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (F) perform routine installations, inspections, adjustments, and maintenance on small engine testing tools and equipment | (iv) perform routine maintenance on small engine testing tools | Student/Teacher | Narrative | 9781614592105 | Small Engine Tools and Equipment: Identification and Operation | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Follow the Guidelines | Small Engine Tools and Equipment: Identification and Operation |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (F) perform routine installations, inspections, adjustments, and maintenance on small engine testing tools and equipment | (v) perform routine installations on small engine equipment | Student/Teacher | Narrative | 9781614592105 | Small Engine Tools and Equipment: Identification and Operation | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Follow the Guidelines | Small Engine Tools and Equipment: Identification and Operation |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
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| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (F) perform routine installations, inspections, adjustments, and maintenance on small engine testing tools and equipment | (vi) perform routine inspections on small engine equipment | Student/Teacher | Narrative | 9781614592105 | Small Engine Tools and Equipment: Identification and Operation | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Follow the Guidelines | Small Engine Tools and Equipment: Identification and Operation |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine: Servicing & Troubleshooting | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|--------------------------------|---------------------|----------|--------------|---------------|----------------|----------|-------------------|
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location | | |
|---|---|---|-----------------|---------------|----------------|--|--|--|--|
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (F) perform routine installations, inspections, adjustments, and maintenance on small engine testing tools and equipment | (vii) perform routine adjustments on small engine equipment | Student/Teacher | Narrative | 9781614592105 | Small Engine Tools and Equipment: Identification and Operation | | | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Follow the Guidelines | Small Engine Tools and Equipment: Identification and Operation | | |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine: Servicing & Troubleshooting | | | |
| | | | Student/Teacher | | | | | | |
| | | | Student/Teacher | | | | | | |
| | | | | | | Teacher Only | Narrative | | |
| | | | | | | Teacher Only | | | |
| | | | Teacher Only | | | | | | |
| | | | Teacher Only | | | | | | |
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (F) perform routine installations, inspections, adjustments, and maintenance on small engine testing tools and equipment | (viii) perform routine maintenance on small engine equipment | Student/Teacher | Narrative | 9781614592105 | Small Engine Tools and Equipment: Identification and Operation | | | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Follow the Guidelines | Small Engine Tools and Equipment: Identification and Operation | | |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine: Servicing & Troubleshooting | | | |
| | | | Student/Teacher | | | | | | |
| | | | Student/Teacher | | | | | | |
| | | | | | | Teacher Only | Narrative | | |
| | | | | | | Teacher Only | | | |
| | | | Teacher Only | | | | | | |
| | | | Teacher Only | | | | | | |
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (G) demonstrate knowledge of electrical testing tools and equipment commonly used in small engine maintenance such as digital multimeters | (i) demonstrate knowledge of electrical testing tools commonly used in small engine maintenance | Student/Teacher | Narrative | 9781614592105 | Small Engine Tools and Equipment: Identification and Operation | | | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Follow the Guidelines | Small Engine Tools and Equipment: Identification and Operation | | |
| | | | Student/Teacher | | | | | | |
| | | | Student/Teacher | | | | | | |
| | | | Student/Teacher | | | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|---|--|-----------------|---------------|----------------|----------------------------------|--|
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (G) demonstrate knowledge of electrical testing tools and equipment commonly used in small engine maintenance such as digital multimeters | (ii) demonstrate knowledge of electrical equipment commonly used in small engine maintenance | Student/Teacher | Narrative | 9781614592105 | | Small Engine Tools and Equipment: Identification and Operation |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Follow the Guidelines | Small Engine Tools and Equipment: Identification and Operation |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
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| | | | Teacher Only | | | | |
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (H) perform measurements using precision instruments such as micrometers, dial indicators, and Vernier calipers | (i) perform measurements using precision instruments | Student/Teacher | Narrative | 9781614592105 | | Small Engine Tools and Equipment: Identification and Operation |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Follow the Guidelines | Small Engine Tools and Equipment: Identification and Operation |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (i) inspect and measure small engine parts for wear tolerances and compare to specifications | (i) inspect small engine parts for wear tolerances | Student/Teacher | Narrative | 9781614592105 | | Small Engine Tools & Equipment: Identification and Operation |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|--|---|-----------------|---------------|----------------|--|--|
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Reading a Micrometer; Activity - Reading a Micrometer Answer Key | Small Engine Tools & Equipment: Identification and Operation |
| | | | Student/Teacher | Narrative | 9781614592105 | Small Engine Technology: Troubleshooting, Repair, Service and Maintenance | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Which Tool?; Activity - Which Tool? Answer Key | Small Engine Technology: Troubleshooting, Repair, Service and Maintenance |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine Series | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (i) inspect and measure small engine parts for wear tolerances and compare to specifications | (ii) measure small engine parts for wear tolerances | Student/Teacher | Narrative | 9781614592105 | Small Engine Tools & Equipment: Troubleshooting, Repair, Service & Maintenance | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Cam Shaft ID; Activity - Cam Shaft ID Answer Key; Activity - Carburetor Disassembly; Activity - Carburetor Disassembly Teacher Instruction Sheet; Project - Service Repair Manual; Activity - Which Tool?; Activity - Which Tool? | Small Engine Tools & Equipment: Troubleshooting, Repair, Service & Maintenance |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine Series | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|---|---|-----------------|---------------|----------------|---|--|
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (I) inspect and measure small engine parts for wear tolerances and compare to specifications | (iii) compare to specifications | Student/Teacher | Narrative | 9781614592105 | Small Engine Technology: Understanding Basic Systems | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Electrical Systems: Project - Working Together | Small Engine Technology: Understanding Basic Systems |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine Series | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (J) demonstrate the relationship between an electric current and magnetic fields in ignition, starting, and charging systems with the use of test equipment | (i) demonstrate the relationship between an electric current and magnetic fields in ignition systems with the use of test equipment | Student/Teacher | Narrative | 9781614592105 | Small Engine Technology: Understanding Basic Systems | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Electrical Systems: Project - Working Together | Small Engine Technology: Understanding Basic Systems |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine: Electrical System | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|---|---|--|---------------|----------------|---|--|
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (J) demonstrate the relationship between an electric current and magnetic fields in ignition, starting, and charging systems with the use of test equipment | (ii) demonstrate the relationship between an electric current and magnetic fields in starting systems with the use of test equipment | Student/Teacher | Narrative | 9781614592105 | Small Engine Technology: Understanding Basic Systems | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Electrical Systems; Project - Working Together | Small Engine Technology: Understanding Basic Systems |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine: Electrical System | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only Teacher Only Teacher Only Teacher Only | | | | |
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (J) demonstrate the relationship between an electric current and magnetic fields in ignition, starting, and charging systems with the use of test equipment | (iii) demonstrate the relationship between an electric current and magnetic fields in charging systems with the use of test equipment | Student/Teacher | Narrative | 9781614592105 | Small Engine Technology: Understanding Basic Systems | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Electrical Systems; Project - Working Together | Small Engine Technology: Understanding Basic Systems |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine: Electrical System | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only Teacher Only Teacher Only Teacher Only | | | | |
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (K) analyze the effects of heating and cooling on small engines | (i) analyze the effects of heating on small engines | Student/Teacher | Narrative | 9781614592105 | Small Engine Technology: Understanding Basic Systems | |
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| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|---|---|-----------------|---------------|----------------|---|--|
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Compare & Contrast Cooling Systems; Project - Working Together | Small Engine Technology: Understanding Basic Systems |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine Series | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (K) analyze the effects of heating and cooling on small engines | (ii) analyze the effects of cooling on small engines | Student/Teacher | Narrative | 9781614592105 | Small Engine Technology: Understanding Basic Systems | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Compare & Contrast Cooling Systems; Project - Working Together | Small Engine Technology: Understanding Basic Systems |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine Series | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (L) explain the thermophysical properties of fluids commonly used in small engine systems | (i) explain the thermophysical properties of fluids commonly used in small engine systems | Student/Teacher | Narrative | 9781614592105 | Small Engine Technology: Understanding Basic Systems | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - What is Thermophysical? | Small Engine Technology: Understanding Basic Systems |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|---|--|-----------------|---------------|----------------|---|---|
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (M) explain the laws of thermodynamics | (i) explain the laws of thermodynamics | Student/Teacher | Narrative | 9781614592105 | Principles of Internal Combustion Engines | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - In Your Own Words | Principles of Internal Combustion Engines |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (N) explain torque, horsepower, and heat energy transfer in small engines | (i) explain torque in small engines | Student/Teacher | Narrative | 9781614592105 | Principles of Internal Combustion Engines | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - In Your Own Words | Principles of Internal Combustion Engines |
| | | | Student/Teacher | Narrative | 9781614592105 | Small Gas Engine: Assembly Procedures | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Torque Sequence; Activity - Torque Sequence Answer Key | Small Gas Engine: Assembly Procedures |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|---|--|-----------------|---------------|----------------|---|---|
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (N) explain torque, horsepower, and heat energy transfer in small engines | (i) explain horsepower in small engines | Student/Teacher | Narrative | 9781614592105 | Principles of Internal Combustion Engines | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - In Your Own Words | Principles of Internal Combustion Engines |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (N) explain torque, horsepower, and heat energy transfer in small engines | (iii) explain heat transfer in small engines | Student/Teacher | Narrative | 9781614592105 | Principles of Internal Combustion Engines | |
| | | | Student/Teacher | Activity | 9781614592105 | Project - In Your Own Words | Principles of Internal Combustion Engines |
| | | | Student/Teacher | Narrative | 9781614592105 | Four-Stroke Engine: Overview | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (O) calculate speed and acceleration in small engines | (i) calculate speed in small engines | Student/Teacher | Narrative | 9781614592105 | Principles of Internal Combustion Engines | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Calculations Worksheet | Principles of Internal Combustion Engines |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|---|---|-----------------|---------------|----------------|--|---|
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (O) calculate speed and acceleration in small engines | (ii) calculate acceleration in small engines | Student/Teacher | Narrative | 9781614592105 | Principles of Internal Combustion Engines | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity - Calculations Worksheet | Principles of Internal Combustion Engines |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (P) compare and contrast efficiency of various engine sizes and types | (i) compare and contrast efficiency of various engine sizes | Student/Teacher | Narrative | 9781614592105 | Principles of Internal Combustion Engines | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity-Single vs. Multiple Cylinder Engines; Activity-Single vs. Multiple Cylinder | Principles of Internal Combustion Engines |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |

| Knowledge and Skills Statement | Student Expectation | Breakout | Item Type | Citation Type | Component ISBN | Page (s) | Specific Location |
|---|---|--|-----------------|---------------|----------------|--|---|
| (10) The student demonstrates advanced technical knowledge and skills in simulated or actual work situations. The student is expected to: | (P) compare and contrast efficiency of various engine sizes and types | (ii) compare and contrast efficiency of various engine types | Student/Teacher | Narrative | 9781614592105 | Principles of Internal Combustion Engines | |
| | | | Student/Teacher | Activity | 9781614592105 | Activity-Single vs. Multiple Cylinder Engines; Activity-Single vs. Multiple Cylinder | Principles of Internal Combustion Engines |
| | | | Student/Teacher | | | | |
| | | | Student/Teacher | | | | |
| | | | Teacher Only | Narrative | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |
| | | | Teacher Only | | | | |