

Standards Correlations

Small Engine Technology I (8725)

Task	SOL Correlations	EETC Correlations
Demonstrating Personal Qualities and Abilities		
Demonstrate creativity and innovation.	English: 6.1, 6.3, 6.4, 6.6, 6.7, 6.9, 7.1, 7.3, 7.4, 7.6, 7.7, 7.9, 8.1, 8.3, 8.4, 8.6, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WG.4, WHI.1, WHII.1 Mathematics: 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.10, 6.11, 6.12, 7.2, 7.3, 7.8, 7.9, 8.2, 8.4, 8.6, 8.7, 8.11, 8.12, 8.17, 8.18, A.9, AFDA.3, AFDA.4, AFDA.5, AFDA.6, AFDA.7, AFDA.8, AII.9, COM.1, COM.3, COM.4, COM.5, COM.8, DM.7, DM.1*, DM.10, DM.2*, DM.3*, PS.3*, PS.4*, PS.7*, PS.9*, PS.10* Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PS.1	
Demonstrate critical thinking and problem solving.	English: 6.1, 6.3, 6.4, 6.5, 6.6, 6.7, 6.9, 7.1, 7.3, 7.4, 7.5, 7.6, 7.7, 7.9, 8.1, 8.3, 8.4, 8.5, 8.6, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8	

Task	SOL Correlations	EETC Correlations
	History and Social Science: CE.1, CE.4, CE.11, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WG.4, WHI.1, WHII.1 Mathematics: 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.10, 6.11, 7.2, 7.3, 7.8, 7.12, 7.13, 8.2, 8.4, 8.8, 8.9, 8.10, 8.11, A.8, A.9, G.1, G.13, G.14, AFDA.3, AFDA.5, AFDA.8, AII.9, AII.10, AII.11, COM.1, COM.3, COM.4, COM.5, COM.8, DM.4, DM.7, DM.1*, DM.2*, DM.3*, DM.9*, PS.9*, PS.10* Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PS.1	
Demonstrate initiative and self-direction.	English: 6.1, 6.4, 6.6, 6.7, 6.9, 7.1, 7.4, 7.6, 7.7, 7.9, 8.1, 8.4, 8.6, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.11, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Demonstrate integrity.	English: 6.1, 7.1, 8.1, 9.1, 9.5, 10.1, 10.5, 11.1, 11.5, 12.1, 12.5 History and Social Science: CE.1, CE.3, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Demonstrate work ethic.	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: CH.1	
Demonstrating Interpersonal Skills		

Task	SOL Correlations	EETC Correlations
Demonstrate conflict-resolution skills.	English: 6.1, 6.2, 6.4, 6.6, 6.7, 6.9, 7.1, 7.2, 7.4, 7.6, 7.7, 7.9, 8.1, 8.2, 8.4, 8.6, 8.7, 8.9, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, VUS.1	
Demonstrate listening and speaking skills.	English: 6.1, 6.2, 6.4, 6.6, 7.1, 7.2, 7.4, 7.6, 8.1, 8.2, 8.4, 8.6, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Demonstrate respect for diversity.	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.3, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, USII.9, VUS.1, VUS.13, WG.1, WHI.1, WHII.1	
Demonstrate customer service skills.	English: 6.1, 6.4, 6.7, 7.1, 7.4, 7.7, 8.1, 8.4, 8.7, 9.1, 9.5, 9.6, 10.1, 10.5, 10.6, 11.1, 11.5, 11.6, 12.1, 12.5, 12.6 History and Social Science: CE.1, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Collaborate with team members	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.3, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Demonstrating Professional Competencies		
Demonstrate big-picture thinking.	English: 6.1, 6.4, 7.1, 7.4, 8.1, 8.4, 9.1, 9.5, 10.1, 10.5, 11.1, 11.5, 12.1, 12.5	

Task	SOL Correlations	EETC Correlations
	History and Social Science: CE.1, CE.4, CE.12, GOVT.1, GOVT.15, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Demonstrate career- and life-management skills.	English: 6.1, 6.7, 7.1, 7.7, 8.1, 8.7, 9.1, 9.6, 10.1, 10.6, 11.1, 11.6, 12.1, 12.6 History and Social Science: CE.1, CE.4, CE.12, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 8.4	
Demonstrate continuous learning and adaptability.	English: 6.1, 6.4, 6.7, 6.9, 7.1, 7.4, 7.7, 7.9, 8.1, 8.4, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.3, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: BIO.1, CH.1, LS.1, PH.1, PH.4, PS.1	
Manage time and resources.	English: 6.1, 6.2, 6.4, 6.7, 6.9, 7.1, 7.2, 7.4, 7.7, 7.9, 8.1, 8.2, 8.4, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.2, 11.5, 11.6, 11.8, 12.2, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.11, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.10, 6.11, 6.12, 7.2, 7.3, 7.8, 7.9, 7.10, 7.11, 7.12, 7.13, 8.4, 8.11, 8.12, 8.13, 8.14, 8.17, 8.18, A.4, A.5, A.8, A.9, AFDA.3, AFDA.4, AFDA.5, AFDA.6, AFDA.7, AFDA.8, COM.1, COM.3, COM.5, COM.8	

Task	SOL Correlations	EETC Correlations
Demonstrate information-literacy skills.	English: 6.1, 6.2, 6.4, 6.6, 6.7, 6.9, 7.1, 7.2, 7.3, 7.4, 7.6, 7.7, 7.9, 8.1, 8.2, 8.3, 8.4, 8.6, 8.7, 8.9, 9.2, 9.5, 9.6, 9.8, 10.2, 10.5, 10.6, 10.8, 11.2, 11.5, 11.6, 11.8, 12.2, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.10, 6.11, 7.8, 7.9, 8.11, 8.12, A.8, A.9, AFDA.3, AFDA.4, AFDA.6, AFDA.7, AFDA.8, DM.8, PS.1*, PS.2*, PS.3*, PS.4*, PS.7*, PS.8*, PS.9*, PS.10* Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PH.1, PS.1	
Demonstrate an understanding of information security.	English: 6.1, 6.2, 6.3, 6.4, 6.6, 6.7, 6.8, 6.9, 7.1, 7.2, 7.3, 7.4, 7.6, 7.7, 7.8, 7.9, 8.1, 8.2, 8.3, 8.4, 8.6, 8.7, 8.8, 8.9, 9.1, 9.2, 9.5, 9.6, 9.8, 10.1, 10.2, 10.5, 10.6, 10.8, 11.1, 11.2, 11.5, 11.6, 11.8, 12.1, 12.2, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: COM.10	
Maintain working knowledge of current information-technology (IT) systems.	English: 6.1, 6.3, 6.4, 6.6, 6.9, 7.1, 7.3, 7.4, 7.6, 7.9, 8.1, 8.3, 8.4, 8.6, 8.9 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 7.8, COM.1, COM.2, COM.7, COM.9, COM.10, COM.11, COM.16, COM.18, PS.17	

Task	SOL Correlations	EETC Correlations
	Science: BIO.1, CH.1, ES.1, PH.1	
Demonstrate proficiency with technologies, tools, and machines common to a specific occupation.	History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.10, 6.11, 7.9, 8.4, A.7, A.8, A.9, AFDA.1, AFDA.3, AFDA.5, AII.4, AII.7, AII.9, COM.1, COM.7, COM.10, COM.11, COM.12, COM.16 Science: CH.1, ES.1, LS.1, PH.1, PS.1	
Apply mathematical skills to job-specific tasks.	English: 6.4, 6.6, 6.7, 7.4, 7.6, 7.7, 8.4, 8.6, 8.7, 9.5, 9.6, 10.5, 10.6, 11.5, 11.6, 12.5, 12.6 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.1, 6.2, 6.5, 6.6, 6.12, 6.13, 6.14, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.8, 7.9, 7.11, 7.12, 7.13, 8.4, 8.5, 8.6, 8.8, 8.9, 8.10, 8.11, 8.12, 8.13, 8.14, 8.15, 8.16, 8.17, 8.18, A.1, A.3, A.4, A.5, A.7, A.8, A.9, AFDA.1, AFDA.3, AFDA.5, AFDA.8, AII.3, AII.7, AII.9, AII.10, COM.1, COM.7 Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PH.1, PS.1	
Demonstrate professionalism.	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Demonstrate reading and writing skills.	English: 6.1, 6.6, 6.7, 7.1, 7.6, 7.7, 8.1, 8.6, 8.7, 9.1, 9.5, 9.6, 9.7, 10.1, 10.5, 10.6, 10.7, 11.1, 11.5, 11.6, 11.7, 12.1, 12.5, 12.6, 12.7	

Task	SOL Correlations	EETC Correlations
	History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: 6.1, PH.1, PS.1	
Demonstrate workplace safety.	English: 6.4, 7.4, 8.4, 9.5, 10.5, 11.5, 12.5 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: CH.1	
Examining All Aspects of an Industry		
Examine aspects of planning within an industry/organization.	History and Social Science: GOVT.16	
Examine aspects of management within an industry/organization.		
Examine aspects of financial responsibility within an industry/organization.		
Examine technical and production skills required of workers within an industry/organization.		
Examine principles of technology that underlie an industry/organization.		
Examine labor issues related to an industry/organization.	History and Social Science: GOVT.16	
Examine community issues related to an industry/organization.	History and Social Science: GOVT.16	

Task	SOL Correlations	EETC Correlations
Examine health, safety, and environmental issues related to an industry/organization.	History and Social Science: GOVT.16	
Addressing Elements of Student Life		
Identify the purposes and goals of the student organization.		
Explain the benefits and responsibilities of membership in the student organization as a student and in professional/civic organizations as an adult.		
Demonstrate leadership skills through participation in student organization activities, such as meetings, programs, and projects.		
Identify Internet safety issues and procedures for complying with acceptable use standards.		
Exploring Work-Based Learning		
Identify the types of work-based learning (WBL) opportunities.		
Reflect on lessons learned during the WBL experience.		
Explore career opportunities related to the WBL experience.		
Participate in a WBL experience, when appropriate.		
Applying Safety Practices on the Job		

Task	SOL Correlations	EETC Correlations
Identify marked safety areas.	English: 10.5, 11.5 History and Social Sciences: WHII 8 VUS 8 Govt 7, 8, 9	105 Regulations–1, 2
Identify the location and use of industry-accepted safety devices.	English: 10.5, 11.5 History and Social Sciences: WHII 8 VUS 8 Govt 7, 8, 9	103 Personal Safety–4
Identify the location of the posted evacuation routes.	English: 10.5, 11.5 History and Social Sciences: WHII 8 VUS 8 Govt 7, 8, 9	104 Emergency Awareness–2
Demonstrate knowledge of safety data sheets (SDS).	English: 10.5, 11.5 History and Social Sciences: WHII 8 VUS 8	105 Regulations–3

Task	SOL Correlations	EETC Correlations
	Govt 7, 8, 9 Science: CH.1	
Demonstrate the safe use of chemicals.	English: 10.5, 11.5 History and Social Sciences: WHII 8 VUS 8 Govt 7, 8, 9 Science: CH.1	105 Regulations–4
Demonstrate the safe use of standard and metric hand tools.	English: 10.5, 11.5 History and Social Sciences: WHII 8 VUS 8 Govt 7, 8, 9	401 Service Tools and Equipment–1, 2 402 Hand Tools–1, 2, 3
Demonstrate the safe use of power tools.	English: 10.5, 11.5 History and Social Sciences: WHII 8 VUS 8 Govt 7, 8, 9	400 Tools and Equipment 401 Service Tools and Equipment–1, 2

Task	SOL Correlations	EETC Correlations
Demonstrate the safe use of lab equipment, lifting equipment, and blocking equipment.	English: 10.5, 11.5 History and Social Sciences: WHII 8 VUS 8 Govt 7, 8, 9	101 Work Habits–1, 2 404 Hand Tools–1, 2, 3, 4
Demonstrate the safe use of diagnostic and testing equipment.	English: 10.5, 11.5 History and Social Sciences: WHII 8 VUS 8 Govt 7, 8, 9	401 Service Tools and Equipment–1, 2
Demonstrate the safe use of standard and metric precision measuring tools.	English: 10.5, 11.5 History and Social Sciences: WHII 8 VUS 8 Govt 7, 8, 9	403 Precision Measuring Tools–1, 2, 3, 4, 5, 6, 7
Demonstrate the safe use of protective clothing and equipment.	English: 10.5, 11.5 History and Social Sciences:	103 Personal Safety–1, 2, 3

Task	SOL Correlations	EETC Correlations
	WHII 8 VUS 8 Govt 7, 8, 9	
Demonstrate the safe use of fire protection equipment.	English: 10.5, 11.5 History and Social Sciences: WHII 8 VUS 8 Govt 7, 8, 9 Science: CH.1	104 Emergency Awareness–1
Demonstrate the safe use of outdoor power equipment.	History: WHII 8 VUS 8 Govt 7, 8, 9	
Follow safety standards and regulations of the U.S. Environmental Protection Agency (EPA), Occupational Safety and Health Administration (OSHA), the Equipment and Engine Training Council (EETC), and Safety Data Sheets (SDS).	English: 10.5, 11.5 History and Social Sciences: WHII 8 VUS 8 Govt 7, 8, 9 Science: CH.1	105 Regulations–5

Task	SOL Correlations	EETC Correlations
Using Tools and Equipment		
Identify standard and metric designation.	English: 10.5, 11.5	
Demonstrate proper cleaning, storage, and maintenance of tools and equipment.	English: 10.5, 11.5	401 Tools and Equipment–1, 2
Performing Lab Operations		
Use technical publications.	English: 10.5, 11.5	300 Technical Publications–1, 2 300 Two Stroke, 301 Test Engine–8
Maintain a clean and orderly work area.	English: 10.5, 11.5	102 Work Environment–1, 2
Prepare equipment for delivery.	English: 10.5, 11.5	
Identifying Fasteners and Their Uses		
Identify type and grade of standard, metric, and specialty fasteners.	English: 10.5, 11.5	
Choose appropriate fastener for the corresponding job.	English: 10.5, 11.5	
Understanding Four-Stroke Engine Operation Theory and Components		
Explain four-stroke engine theory order of operation.	English: 10.5, 11.5	100 Small Engine Fundamentals 103 Four Stroke Engine–1, 2
Describe the types, purpose, function, and common terminology of four-stroke air-cooled engine components.	English: 10.5, 11.5	100 Small Engine Fundamentals

Task	SOL Correlations	EETC Correlations
		104 Four Stroke Engine–1, 2, 3, 4, 5, 6, 7
Disassemble a four-stroke engine.	English: 10.5, 11.5	
Install oil seals and gaskets.	English: 10.5, 11.5	600 Four Stroke Engine Service–11
Install a crankshaft.	English: 10.5, 11.5	600 Four Stroke Engine Service–11, 12, 13
Install piston rings.	English: 10.5, 11.5	600 Four Stroke Engine Service–11
Install a piston.	English: 10.5, 11.5	600 Four Stroke Engine Service–11
Replace connecting rods.	English: 10.5, 11.5	600 Four Stroke Engine Service–11
Install valve train components.	English: 10.5, 11.5	600 Four Stroke Engine Service–2, 3, 6, 7, 11
Install a camshaft.	English: 10.5, 11.5	600 Four Stroke Engine Service–11, 14, 16
Install a side cover or sump.		600 Four Stroke Engine Service–11
Understanding Lubrication Systems		
Demonstrate knowledge of common oil standards.		200 Maintenance, 201 Lubrication Fundamentals–5, 6, 7,
Apply lubrication systems theory.	English: 10.5, 11.5	200 Maintenance, 201 Lubrication Fundamentals–1, 2, 3, 10 200 Maintenance, 202 Lubrication Engine Maintenance –1, 2, 7, 8 100 Small Engine Fundamentals 104–Engine 10

Task	SOL Correlations	EETC Correlations
Service different types of lubrication systems.	English: 10.5, 11.5	200 Maintenance, 201 Lubrication Fundamentals–8, 9202 Lubrication Systems 3, 9,10, 200 Maintenance, 201 Lubrication Fundamentals–8, 9
Service the crankcase ventilation system.	English: 10.5, 11.5	200 Maintenance, 202 Lubrication, Engine Maintenance –11, 12, 13
Diagnosing and Servicing the Fuel System		
Describe the principles of fuel delivery.	English: 10.5, 11.5	104 Engine Components–25, 29, 34
Evaluate the operation of a carburetor.	English: 10.5, 11.5	100 Small Engine Fundamentals 104 Engine Components–26, 27, 28, 29, 30, 31
Determine fuel, type, grade, and quality.		700 Failure Analysis –8
Replace the fuel tank and fuel lines.	English: 10.5, 11.5	200 Maintenance, 204 Fuel System– Engine Maintenance –10
Inspect fuel tank cap and vent.	English: 10.5, 11.5	200 Maintenance 204 Fuel System– Engine Maintenance –11
Replace the fuel filter systems.	English: 10.5, 11.5	100 Small Engine Fundamentals 104 Engine Components–32,33 200 Maintenance

Task	SOL Correlations	EETC Correlations
		204 Fuel System–Engine Maintenance –10
Service various types of air cleaner.	English: 10.5, 11.5	100 Small Engine Fundamentals 104 Engine Components–38, 39, 40
Service a diaphragm-type carburetor.	English: 10.5, 11.5	200 Maintenance 204 Fuel System– Engine Maintenance –3, 4, 5, 6, 7, 8, 9 300 Two Stroke Engine 301 Test a Two Stroke Engine–2 500 Four Stroke Engine Diagnosis–2
Service a float-type carburetor.	English: 10.5, 11.5	200 Maintenance 204 Fuel System– Engine Maintenance –3, 4, 5, 6, 7, 8, 9
Diagnosing and Servicing the General Electrical System		
Demonstrate the proper use of a multimeter.	English: 10.5, 11.5	100 Electrical Systems 101 Electrical Theory–12, 36, 37, 38, 40
Apply electrical theory.	English: 10.5, 11.5 Mathematics:	100 Electrical Systems

Task	SOL Correlations	EETC Correlations
	AII.3 Science: PH.11	101 Electrical Theory–1, 2, 3, 4, 5, 6, 7, 8, 9, 10 , 14, 15
Service the starting circuit.	English: 10.5, 11.5	100 Small Engine Fundamentals 100 Electrical Systems 101 Electrical Theory–23,35, 42 104 Engine Components –46, 50
Service the battery.	English: 10.5, 11.5	100 Small Engine Fundamentals 100 Electrical Systems 101 Electrical Theory–13 104 Engine Components–65, 67
Servicing Starting System		
Service the starter drive gear.	English: 10.5, 11.5	100 Electrical Systems 101 Electrical Theory–33 200 Maintenance 205 Start System–1, 2
Describe the operation of a kickstart system.	English: 10.5, 11.5	

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Service the rewind starter system.	English: 10.5, 11.5	100 Small Engine Fundamentals 104 Engine Components–45 200 Maintenance, 205 Start System–1 400 Two Stroke Engine Overhaul 401 Disassembly, Inspection, and Repair–9
Servicing Ignition System		
Describe ignition systems.	English: 10.5, 11.5	100 Small Engine Fundamentals 104 Engine Components–11, 12, 13, 14
Service the spark plugs.	English: 10.5, 11.5	
Service the flywheel.	English: 10.5, 11.5	500 Four Stroke Engine Diagnosis–10
Service the armature.	English: 10.5, 11.5	500 Four Stroke Engine Diagnosis–14
Service the safety switch.	English: 10.5, 11.5	500 Four Stroke Engine Diagnosis–21
Understanding Two-Stroke Operation Theory and Components		
Explain two-stroke engine theory.	English: 10.5, 11.5	100 Small Engine Fundamentals 102 Two Stroke Engine–1 700 Failure Analysis, 11

Task	SOL Correlations	EETC Correlations
Describe valving systems commonly found in two-stroke engines.	English: 10.5, 11.5	100 Small Engine Fundamentals 102 Two Stroke Engine–2
Disassemble a two-stroke engine.	English: 10.5, 11.5	400 Two Stroke Engine Overhaul 401 Disassembly, Inspection, Repair–1
Replace oil seals.	English: 10.5, 11.5	400 Two Stroke Engine Overhaul 401 Disassembly, Inspection, Repair–2,3,4
Replace a crankshaft.	English: 10.5, 11.5	400 Two Stroke Engine Overhaul 401 Disassembly, Inspection, Repair–2, 3, 4
Install piston rings.	English: 10.5, 11.5	400 Two Stroke Engine Overhaul 401 Disassembly, Inspection, Repair–2, 3, 4, 5
Install a piston.	English: 10.5, 11.5	400 Two Stroke Engine Overhaul 401 Disassembly, Inspection, Repair–2, 3, 4, 5
Replace connecting rods.	English: 10.5, 11.5	400 Two Stroke Engine Overhaul

Task	SOL Correlations	EETC Correlations
		401 Disassembly, Inspection, Repair– 2, 3, 4
Replace a cylinder.	English: 10.5, 11.5	400 Two Stroke Engine Overhaul 401 Disassembly, Inspection, Repair– 2, 3, 4
Mix fuel at appropriate ratio.	English: 10.5, 11.5	200 Maintenance, 202 Lubrication–4 204 Fuel System–1, 2
Servicing Cooling Systems		
Explain cooling system theory.	English: 10.5, 11.5	100 Small Engine Fundamentals 104 Engine Components–15, 16
Identify liquid cooling system components.	English: 10.5, 11.5	100 Small Engine Fundamentals 104 Engine Components–21, 22 200 Maintenance 203 Cooling System –3
Identify air cooling system components.	English: 10.5, 11.5	100 Small Engine Fundamentals 104 Engine Components–17
Servicing Governor Systems		
Explain governor system theory.	English: 10.5, 11.5	100 Small Engine Fundamentals 103 Four Stroke Engine–3

Task	SOL Correlations	EETC Correlations
Service governor system.	English: 10.5, 11.5	100 Small Engine Fundamentals 104 Engine Components–69, 70, 72 600 Four Stroke Engine Service–19
Servicing Exhaust Systems		
Explain exhaust system theory of a two-stroke engine.	English: 10.5, 11.5	200 Maintenance 206 Exhaust System –1, 3
Diagnose common equipment problems in a damaged exhaust system of a two-stroke engine.	English: 10.5, 11.5	700 Failure Analysis –6, 7, 8, 9 ,10
Identify exhaust components of a two-stroke engine.	English: 10.5, 11.5	100 Engine Fundamentals 102 Two Stroke Engine–4
Explain exhaust system theory of a four-stroke engine.	English: 10.5, 11.5	100 Small Engine Fundamentals 104 Engine Components–41
Identify cleaning procedures for exhaust ports and spark arrestor screens of a two-stroke engine.	English: 10.5, 11.5	100 Small Engine Fundamentals 104 Engine Components–43 300 Two Stroke Engine 301 Test a Two Stroke Engine–5
Diagnosing and Troubleshooting Small-Engine Equipment		
Demonstrate the steps of diagnostics and troubleshooting.	English: 10.5, 11.5	500 Troubleshooting,

Task	SOL Correlations	EETC Correlations
		501 Methods–1 500 Troubleshooting 502 Information Gathering 1, 2, 3, 4, 5, 6, 7, 8
Service supporting systems and components.	English: 10.5, 11.5	