

# Book & Tool List

## ON-SITE POWER GENERATION TECHNOLOGY

### Associate of Applied Science: On-Site Power Generation Technology

#### Book List for AAS – On-Site Power Generation Technology

Course	Course Title	Book Title	ISBN	Cost
DESL 0101	Safety and Introduction to Shop Practices	Fundamentals Of Medium/Heavy Duty Commercial Vehicle Systems, 16 <sup>th</sup> Ed.	9781284041163	62.60
DESL 0113	Diesel Engine Fuel Systems	Fund. Of Med./Heavy Duty Diesel Engines, 17 <sup>th</sup> Ed.	9781284067057	70.10
DESL 0115	Diesel Hydraulics I	Hydraulic Systems for Mobile Equipment, 17 <sup>th</sup> Ed.	9781631264146	63.25
DESL 0125	Heavy Duty Power Trains	Heavy Equipment Power Trains and Systems, 18 <sup>th</sup> Ed.	9781635632286	65.85
DESL 0243	On-Site Power Generation II	On-Site Power Generation: A Comprehensive Guide to On-Site Power, 5 <sup>th</sup> 18 Ed.	9780692366837	82.05
COMM 1101	Fundamentals of Oral Communication	Fund. Of Oral Communication Access Code	9781644850817	78.57
ENGL 1101	Writing & Rhetoric I	Little Seagull Handbook w/Access Pkg.	9780393877939	22.00
MATH 1153	Statistical Reasoning	Introductory Statistics – WebAssign, 19 <sup>th</sup> Ed.	9781337777186	54.21
MATH 1153	Statistical Reasoning	Introductory Statistics (OER), 18 <sup>th</sup> Ed.	9781506698236	14.15
PSYC 1101 (Obj 6 Option)	Introduction to Psychology	Psychology Loose-leaf w/Access, 13 <sup>th</sup> Ed.	9781319393830	80.00
TOTAL				<b>\$592.78</b>

#### Course Fees for AAS – On-Site Power Generation Technology

Course	Course Title	Fee
DESL 0101	Safety and Introduction to Shop Practices	15.00
DESL 0102	Introduction to Electrical	15.00
DESL 0103	Electrical Systems	15.00

Course	Course Title	Fee
DESL 0107	Basic Diesel Electrical Systems	10.00
DESL 0109	Cab Climate Control	15.00
DESL 0113	Diesel Engine Fuel Systems	15.00
DESL 0115	Diesel Hydraulics I	15.00
DESL 0125	Heavy Duty Power Trains	45.00
DESL 0184	Diesel Engine Technology	15.00
DESL 0186	Diesel Engine Electrical Systems	15.00
DESL 0190	Diesel Engine Emission Systems	15.00
DESL 0215	Advanced Hydraulics	15.00
DESL 0217	Advanced Engine Electronics Systems	15.00
DESL 0231	Live Work Capstone Class	10.00
DESL 0241	On-Site Power Generation I	25.00
DESL 0243	On-Site Power Generation II	25.00
MATH 1153	Statistical Reasoning	5.00
TOTAL		<b>\$285.00</b>

### Other Fees for AAS – On-Site Power Generation Technology

Description	Fee
<b>COVERALL PROGRAM (REQUIRED)</b>	
The student coverall program is on a rental basis. The laundry will supply each student with 3 pair of coveralls.	112.00
TOTAL	<b>\$112.00</b>

### Tools/Supplies for AAS – On-Site Power Generation Technology

Quantity	Description	Cost
1	3-ring Loose leaf binder	3.00
1	Pkg loose leaf paper	2.00
1	Pkg colored pencils	2.00
1	Pkg loose leaf dividers	1.00
1 pair	Safety glasses with shield	6.00
6	#3 Pencils	5.00
2	Ball point pens	2.00
1	4' x 4' White canvas	20.00
	<b>Diesel Tool Kit (purchased from various vendors) Tools in kit listed below:</b>	3040.00
1	1/4" drive – socket, 6 point hex, regular length sizes: 3/16" 7/32" 1/4" 9/32" 5/16" 11/32" 3/8" 7/16" 1/2"	
1	1/4" drive socket: 5, 6, 7, 8, 9, 10, 11, 12, 13mm	
1	1/4" drive – Ratchet, reversible	
1	1/4" drive – Extension, 3 1/2"	
1	1/4" drive – socket set, 5, 6, 7, 8, 9, 10, 11, 12, 13mm	

Quantity	Description	Cost
1	3/8" drive – socket, 6 point regular length sizes: 5/16" 3/8" 7/16" 1/2" 9/16" 5/8" 11/16" 3/4"	
1	3/8" drive- 7 minimum ratchet, reversible	
1	3/8" drive – Extension, 1 3/4", 3 1/2", 5"	
1	3/8" drive – socket, 6 point deep length sizes: 3/8" 7/16" 1/2" 9/16" 5/8" 11/16" 3/4"	
1	3/8" drive – socket, 12 point, impact universal joint sizes: 3/8" 7/16" 1/2" 9/16" 5/8" 11/16" 3/4"	
1	3/8" drive – socket, 6 point regular length sizes: 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	
1	1/2" drive – socket, 12 point, regular length sizes: 7/16" 1/2" 9/16" 5/8" 11/16" 3/4" 13/16" 7/8" 15/16" 1" 1 1/16" 1 1/8" 1 1/4"	
1	1/2" drive – Adapter, 1/2" F, 3/8" M	
1	1/2" drive – Ratchet, reversible 10 1/4" minimum	
1	1/2" drive- Extension, 2 1/2", 5", and 10" long	
1	1/2" drive – Flex handle, 18 1/2" long minimum	
1	1/2" drive – socket, 6 point, regular length sizes: 13, 14, 15, 16, 17, 18, 19, 21, 22, 23 mm	
1	Battery post cleaner	
1	Brush, wire	
1	Chisel, Cold, 5/16" cut, 1/4" hex, 5 1/8" long	
1	Chisel, cold, 3/4" cut, 19/32" hex, 7" long	
1	Chisel, cold, 5/8" cut, 23/32" hex, 8" long	
1	Drill index	
1	File, mil bastard with handle, 12"	
1	File, round bastard with handle, 14"	
1	File, tri-corner with handle, 10"	
1	Flashlight, heavy duty 2-D cell	
1	Gauge, Feeler 26 pieces: .0015 – 0.25	
1	Hacksaw	
1	Hammer, ball pein, 1 lb, polished only, 14 1/2" long	
1	Hammer, ball pein, 40 oz	
1	Hammer, deadblow, plastic, or rubber 3 lb	
1	Hook, utility packing (Mac Tool #sw10 or 50)	
1	Magnet, telescoping, 16 3/4" long	
1	Multimeter, digital (Check with instructor before purchasing)	
1	Pliers, lock ring, 8 1/4"	
1	Pliers, diagonal cutting, 8"	
1	Pliers, external snap ring, 7" and 9", hole type	
1	Pliers, internal snap ring, 7" and 9", hole type	
1	Pliers, lever wrench (vise grips), 8"	
1	Pliers, needle nose, side cutting, 6"	

Quantity	Description	Cost
1	Pliers, power track, (channel locks) 10"	
1	Pliers, slip joint, 8"	
1	Pliers, snap ring, 9", flat end type	
1	Pliers, electrical stripper/cutter/crimper, 8"	
1	Punch, pin, 1/8" dia, 5/32", 3/16", 1/4", 5/16", 3/8" end diameter	
1	Punch set, tapered start, 5/8" x 12" L, 3/4"	
1	Punch, 5/8" Center	
1	Punch, brass drift, 1/2" straight, 12" L	
1	Roll head bar 19/32" hex, 16" long, Snap-On #1650, Mac #LF16, or equivalent	
1	Ruler, flex steel, 1/2" x 6", #4 graduations	
1	Scraper, carbon 12", HD plastic handle	
1	Screw extractors (easy-outs)	
1	Screwdriver, phillips #1, 6 1/2" and #2, 8 1/4"	
1	Screwdriver, standard tip, round shank, 13"	
1	Screwdriver, standard tip, square shank, 6 1/2" and 10 1/2"	
1	Solder gun	
1	Square, combination 12	
1	Tape measure, 1/2" x 12"	
1	Test light	
1	Wrench, flare, 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16"	
1	Wrench, combination sizes, 1/4, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8, 1 1/4 inches	
1	Wrench, 14", heavy duty, pipe	
1	Wrench, 25# - 250# Torque, torque left and right	
1	Wrench, combination sizes: 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23mm	
1	Wrench, combination sizes: 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	
1	Adjustable wrench (crescent) 8", 12"	
1	SAE Allen wrench set: 1/16 to 3/8	
1	Metric Allen set: 1.5mm to 10mm	
1	Torx sockets T10 to T55	
1	1/2" dr. flex handle, 18 1/2"	
1	4 piece mini pick set	
1	1/2" dr. 13mm socket, 6 point, regular length	
1	Tool chest, six drawer, removable top, 26"W x 12"D x 14 1/2"H	
1	Full size removable tote tray, 3-4" width drawers, 2"D	
1	2 full-width drawers, 2"D, 1 full-width drawer 4"D	

Quantity	Description	Cost
	TOTAL	\$3081.00

Summary

Tuition	\$15,744.00
Books	\$592.78
Fees	\$397.00
Tools/Supplies	\$3,081.00
Program Total	\$19,814.78