Oil & Gas Exploration and Production

BUSINESS & INDUSTRY ENDORSEMENT

CWHS

2024-25

Grade	CTE Required Courses	Language Arts	Math	Science	Social Studies	Required State Electives
9th	Oil and Gas Production I (1)	English I	Algebra I	Biology	World Geography	Fine Arts (1) Health (.5) Languages Other Than English (LOTE) or Computer Science PE (1 or substitute credit)
10th	Oil and Gas Production II (1)	English II	Geometry	IPG or Chemistry	World History	
11th	Oil and Gas Production III (1) Occupational Safety and Environmental Technology I (1)	English III	MMA or Algebra II	Chemistry or Physics	U.S. History	
12th	Oil and Gas Production IV (1) Occupational Safety and Environmental Technology II (1)	English IV	Mathematical Applications in Agricultural Food & Natural Resources	Principles of Technology	Government/ Economics	

High School/ Industry Certifications/Performance Acknowledgements	
State Approved	***District Approved***
NCCER Instrumentation Level I	Rig Pass, IADC Wellsharp Certification, Six Sigma, OSHA 10 General
Career & Technical Student Organizations: SkillsUSA	

Certificate/ License*	Associate's Degree	Bachelor's Degree	Master's/ Doctoral Professional Degree
Above Ground Storage Tanks Inspector Certification	Petroleum Engineering	Petroleum Engineering	Petroleum Engineering
Pressure Vessels Inspector Certification	Chemical Engineering	Chemical Engineering	Chemical Engineering
Piping Inspector Certification	Petroleum Technology/ Technician	Mechanical Engineering	Mechanical Engineering
API QUTE – Qualification of Ultrasonic Testing Examiners	Industrial Mechanics and Maintenance Technology	Industrial Engineering	Industrial Engineering

Occupations	Median Wage	Annual Openings	% Growth
Extraction Workers- All Other	$44,616	145	25%
Extraction Workers	$34,570	1,000	7%
Drill Operators, Oil and Gas	$52,083	925	14%

The Energy Career Cluster prepares individuals for careers in the designing, planning, maintaining, generating, transmission, and distribution of traditional and alternative energy.