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Non-Technical & Prerequisite Programs

Petroleum Technology for Non-Technical Professionals	**2 Credits**
Upstream Petroleum Technology for Non-Petroleum Engineers	**2 Credits**

Petroleum Reservoir Management

Reservoir Engineering Practices	**5 Credits**
Reservoir Performance	**2 Credits**
Reservoir Simulation	**2 Credits**
Improved Recovery Methods	**2 Credits**
Reservoir Management of Mature Fields	**2 Credits**
Reservoir Characterization	**2 Credits**
Reservoir Management & Exploitation Strategies	(Under Development)

Reservoir Description & Modeling

Subsurface Mapping	**2 Credits**
Reservoir Characterization	**2 Credits**
Reservoir Simulation	**2 Credits**

Formation Evaluation Methods

Formation Evaluation	**5 Credits**
Well Test Planning & Analysis	**3 Credits**
Open Hole Logging Methods	**2 Credits**
Well Log Interpretation	**2 Credits**

Applied Petrophysics

Reservoir Rock & Fluid Properties	**2 Credits**
Subsurface Mapping	**2 Credits**
Reservoir Characterization	**2 Credits**

Upstream Natural Gas Management

Upstream Natural Gas Management	(Under Development)

Drilling Engineering & Operations

Drilling & Well Completion Practices	**5 Credits**
Well Planning & Design	**2 Credits**
Drilling Operations	**3 Credits**

Production Engineering & Operations

Production & Operating Practices	**5 Credits**
Well Completion & Workover Operations	**3 Credits**
Producing Well Performance	**2 Credits**
Well Stimulation & Sand Control	**2 Credits**
Surface Production Operations	**3 Credits**

Note: Some 2 & 3 credit programs may partially satisfy requirements for 5 credit programs.

Program Requirements

You should have a post-secondary degree from a recognized institution and some work experience in order to be accepted in the Certificate and Diploma programs. To enroll in the Master Degree program, you must meet the graduate admission requirements of The Pennsylvania State University. Certificate and Diploma programs must be completed before applying to have their credits accepted by the University.

Program Elements

Background Learning:
Focused learning programs devoted to the important background knowledge, concepts and practices of the Program's subject area.

Action Learning:
Virtual job assignments built around IHRDC-designed scenarios that incorporate industry-defined competencies, actual field data and real-world situations that you are likely to encounter on the job.

Practical Knowledge (5-credit programs only):
Electronically captured procedures, standards or "best practices" that relate to the program subject matter and your specific work environment.

Research Assignment:
A brief, original paper of publishable quality devoted to the program's subject matter and containing one or more recommendations for applying technology, better operating practices or improved business practices within your company.

Planning and Duration

Each credit hour in a program corresponds to approximately 40 hours of dedicated effort. Thus, a 5-credit program would require roughly 200 hours to complete--about 5 weeks on a full-time basis or 15 weeks if only 14 hours per week is spent in learning. Other certificate programs require fewer hours to complete. Transfer of credit hours to the On-Line Master of Engineering in Oil and Gas Engineering Management at **The Pennsylvania State University** will be based on acceptance by examination and/or evaluation.

For more details, visit **www.ihrdconline.com**