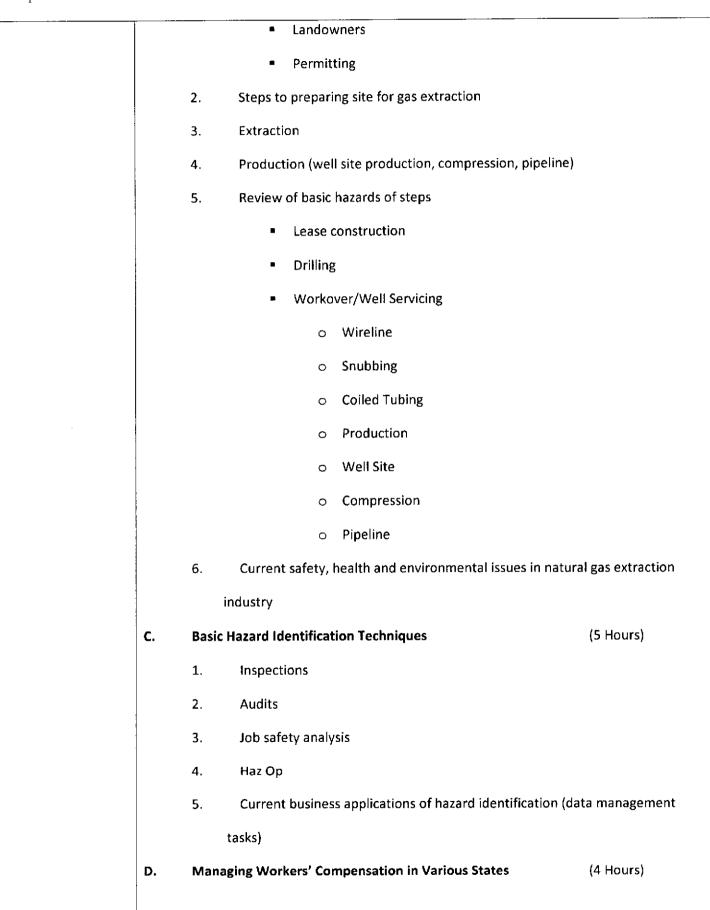
13-326. UWU (C: App 9/1/15 Sengte: Info (0/6/15

Distance Education Course Proposal Template

Steps to the approval process:

- Complete the applicable template(s) and email them to the departmental or program curriculum committee chair.
 (If this is a <u>new course</u> that will include DE, complete Templates A and E. If <u>adding DE</u> to an <u>existing course</u> that is otherwise unchanged, complete Template E only. If <u>revising a course and adding DE</u>, complete Templates A and E.)
- 2. The curriculum chair emails the proposal to the curriculum committee, then to the department/program faculty for a vote and finally to the department/program chair.
- 3. The department/program chair emails the proposal to <u>curriculum-approval@iup.edu</u>; this email will also serve as an electronic signature.
- 4. Curriculum committee staff will log the proposal, forward it to the appropriate dean's office(s) for review within 14 days and post it on the X Drive for review by all IUP faculty and administrators. Following the dean's review the proposal goes to the UWUCC/UWGC and the Senate.
- 5. Questions? Email curriculum-approval@iup.edu.

Contact	Dr. Laur	a Helmri	ch-Rho	odes	Email	lhrhodes@iup.edu			
Person:	Cafata C	.!			Address: Phone:	724-357-3017			
Proposing Depart/Unit:	Safety Sciences				Filone.	724-337-3017			
Вераго отп.						<u>neceiven</u>			
Carrage Day Car	/N I I	CAPE 104							
Course Prefix/Number		SAFE 104 PR 2 9 2015							
Course Title		Introduction to Safety in the Natural Gas Industry							
Adding DE to an Already Approved		☐ Yes — Template E only required ☐ No — Template A and E both required Liberal Studies							
Course	orea								
Type of Proposal		(See CB.1, Art. 42.D.1 for definition) Online ITV							
		A. Status of Worker Protection in Natural Gas Procurement (5 Hours)							
		\$10000.00C	1.	History of Occupational S	afety and H	Health in the natural gas industry			
						,			
		 Case studies of large losses 							
Brief Course Outline –			2.	Global disasters and the I	egislation 1	hat followed			
		Other important legislation and safety standards							
		5. Other important legislation and safety standards							
if adding DE t		■ Construction Safety Act							
approved course Give an outline of sufficient detail to communicate the course content to faculty across campus. It is not necessary to include specific readings, calendar, or assignments.									
		 OSH Act and OSHA Recordkeeping 							
		 American Petroleum Institute Standards 							
		- American Fetroleum matitute Standards							
				■ EPA (PA DEP Ch 7	' 8)				
		B. Bering of the Network Con Business Boundary and Transport Business							
	B. Basics of the Natural Gas Procurement, Development and Transport Process								
						(4 Hours)			
			1.	Steps to finding gas					
			1.	Steps to many bas					
				 Seismic 					



1.	Legislation	
2.	Definition	
3.	Coverage	
4.	Program elements	
5.	Cost containment strategies	
6.	Professional liability under various states' Workers' Comp	ensation Acts
E. Ac	cident Investigation	(5 Hours)
1.	Accident causation theories	
2.	Modern strategies for accident investigations	
3.	Step-by-step conducting of an effective accident investiga	tion
4. im	Preventing recurrence through meaningful recommendati plementation	ons and
5. ef	Using accident Ssatistics and software packages to supportorts	t safety program
6.	Handling catastrophic loss at the personal level for all stak	eholders
F. En	vironmental Safety and Industrial Hygiene	(6 Hours)
1.	Recognizing occupational health exposures	
2.	Evaluating and controlling health hazards	
3.	Managing environmental risk	
4.	Legislation overview	
5.	Current issues in the natural gas industry	
G. Fir	e and Emergency Response	(4 Hours)
1.	Principles of fire protection	
2.	Recognizing fire hazards, hazardous locations, and their contr	rols
3.	Pertinent standards	
4.	Local, regional and Federal emergency planning regulations	

		1. Extent of exposure					
		Basic program elements and implementation requi	irements				
		3. Driver selection, development and control					
		4. Preventative maintenance					
		5. Recordkeeping					
	1.	Ergonomics	(2 Hours)				
		1. Fundamentals of human performance	!				
		 Common ergonomic hazards in natural gas industr 	у				
		3. Hazard analysis and engineering controls					
		4. Current issues in ergonomic protection					
	J.	Managing the Safety Function	(4 Hours)				
		1. Principles of fire protection					
		2. Codes of ethics					
		 Getting the job done (setting goals, assigning respondent and authority, safety program maintenance, behave 					
		4. Maintaining priorities (safety metrics, statistics, co	nvincing others)				
	к.	Culminating Activity (finals week)	(2 Hours)				
	R	ationale for Proposal (Required Questions from CBA)	CDOL -4-11-				
How is/are the	All department faculty are well versed in on-line teaching due to consistent use of D2L at the						
instructor(s) qualified	undergrad level, and the online masters and PhD programs in Safety Sciences. Antic						
in the Distance	involvement in the gas industry by more faculty is anticipated due to research projects thus						
Education delivery	making more faculty qualified to teach this course. Additional faculty qualifications: OSHA						
method as well as the	Oil and Gas safety training, private sector safety training by companies such as CONSOL, in the field research projects (On-site Silica and Fugitive Gas sampling methods research in						
discipline?	the field research projects (On-site Silica and Fugitive Gas sampling methods research process), trade association memberships and private practice.						
		Students completing this course will be able to:	<u>.</u>				
For each outcome in		The death of the control of the cont	industry, and the sugarte				
the course, describe	A. Describe the history of safety and health in the natural gas industry and the events						
how the outcome will	resulting in safety and health legislation.						
be achieved using		Course materials and Live Lecture					
Distance Education	1	ne the major hazards associated with each step of natur	ral gas procurement and				
technologies.	process	-					
	•	OSHA E-tools, American Petroleum Institute on-line s	support materials, Video				

	11 0
	clips from groups such as Chemical Safety Board, Guest speaker videos
	(Alumni) Live Lecture and text book usage
	C. Describe established methods used for recognizing, evaluating and controlling
	occupational health exposures and risk in the natural gas industry.
	 Students will be asked to visit a well site if possible otherwise an alternate assignment using video of hazards will be used. Mock OSHA Inspection with applicable standards (including all applicable OSHA, API, ANSI etc standards covered in this course)
	D. Explain the basic principles of emergency preparedness and response including identifying pertinent standards and fire hazards/controls unique to the natural gas
	industry. • Project
	E .Describe the basic program elements and implementation requirements for an effective fleet safety program.
	Course module material, Keller Online DOT materials
	F. Explain how accident investigation strategies can determine root causes of
	workplace accidents in the various stages of natural gas procurement.
	Case studies and accident data management projects
	G. Apply reporting, recording and accident investigation strategies to the various stages of natural gas procurement.
	Development of written recommendations in form of electronic checklists, internal business memos and external business letters
How will instructor-	Several options could be used by the faculty member including Blackboard Collaborative Live
student and student- student, if applicable, interaction take place?	Classroom (used extensively in our other programs), Video conferencing, email, phone, video submissions by students
How will student achievement be evaluated?	Online quizzes, Class participation in live classroom, tests and projects
How will academic honesty for tests and assignments be addressed?	Test banks of questions will be used to generate random questions for shorter test/quiz times. Quiz questions with answers will not be published together, "Originality Reports" will be used for all written submission, and frequently revision of projects