

MASTER SYLLABUS

Course Discipline Code & No: UAP108 Title: Water Supply and Drainage Effective Term SS 2009
 Division Code: VCT Department Code: UA Org #: 28310
 Don't publish: College Catalog Time Schedule Web Page

Reason for Submission. Check all that apply.
 New course approval Reactivation of inactive course
 Three-year syllabus review/Assessment report Inactivation (Submit this page only.)
 Course change

Change information: Note all changes that are being made. Form applies only to changes noted.

Consultation with all departments affected by this course is required. Total Contact Hours (total contact hours were: _____)
 Course discipline code & number (was _____)* Distribution of contact hours (contact hours were: lecture: _____ lab _____ clinical _____ other _____)
 *Must submit inactivation form for previous course. Pre-requisite, co-requisite, or enrollment restrictions
 Course title (was _____) Change in Grading Method
 Course description Outcomes/Assessment
 Course objectives (minor changes) Objectives/Evaluation
 Credit hours (credits were: _____) Other _____

Rationale for course or course change. Attach course assessment report for existing courses that are being changed.

Approvals Department and divisional signatures indicate that all departments affected by the course have been consulted.

Department Review by Chairperson New resources needed All relevant departments consulted
 Print: Dan Welch Faculty/Preparer Signature D. Welch Date: 2/2/09
 Print: _____ Department Chair Signature _____ Date: _____

Division Review by Dean
 Request for conditional approval
 Recommendation Yes No D. Welch Date: 2/2/09
 Dean's/Administrator's Signature

Curriculum Committee Review
 Recommendation Tabled Yes No J. Stevens Date: 3/18/09
 Curriculum Committee Chair's Signature

Vice President for Instruction Approval
Roger M. Pelroy Date: 2/19/09
 Vice President's Signature
 Approval Yes No Conditional

Do not write in shaded area.
 Log File 2/6/09 Copy Banner 3/23 C&A Database 3/23 C&A Log File 3/23 Basic skills Contact fee

Please return completed form to the Office of Curriculum & Assessment and email an electronic copy to sjohn@wccnet.edu for posting on the website.

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Course <u>UAP108</u>	Course title <u>Water Supply and Drainage</u>
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Course description State the purpose and content of the course. Please limit to <u>500</u> characters.	Water Supply topics include: water treatment, water mains and services, building water supply systems, and hot water supply. The course provides a detailed description of the purpose and function of the various components of a water supply system. The Drainage portion of this course presents the various types of drainage systems installed and maintained by pipe trades journeyworkers. The course includes: sewage disposal, sewers and drains, building drainage systems, the plumbing trap, and venting the drainage system. Limited to United Association students.
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Course outcomes List skills and knowledge students will have after taking the course. Assessment method Indicate how student achievement in each outcome will be assessed to determine student achievement for purposes of course improvement.	Outcomes (applicable in all sections) Upon successful completion of this course, the student will be able to:	Assessment Methods for determining course effectiveness
	<ul style="list-style-type: none"> • Explain how to protect potable water supplies with proper backflow devices • Design a hot water supply system using different types of water heating equipment • Describe the difference between wells and other sources of potable water • Demonstrate how to plan a hot and cold water supply system in high-rise buildings • Explain the difference between sanitary and storm, vacuum and gray water drainage systems • Describe the various treatment processes, from cesspools to septic tanks to full-scale sewage treatment plants • Describe how the venting system interrelates with the drainage system to promote effective operation • Demonstrate the ability to use their local plumbing code in drainage system design and installation 	This course is assessed externally by the local's Joint Apprenticeship Training Committee (JATC), consisting of industry representatives and UA members. The local receives feedback on needed technical updates and apprentice skill performance.

Course Objectives Indicate the objectives that support the course outcomes given above. Course Evaluations Indicate how instructors will determine the degree to which each objective is met for each student.	Objectives (applicable in all sections)	Evaluation Methods for determining level of student performance of objectives
	Objectives and evaluation methods follow the International Pipe Trades Curriculum Outline issued by the UA Training Department.	

List all new resources needed for course, including library materials.
No new resources, courses are taught at existing UA local training schools.

Student Materials:		
List examples of types Texts Supplemental reading Supplies Uniforms Equipment Tools Software	UA local training schools provide all the necessary books and materials for the students.	Estimated costs \$ 0

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Equipment/Facilities: Check all that apply. (All classrooms have overhead projectors and permanent screens.)

Check level <u>only</u> if the specified equipment is needed for <u>all</u> sections of a course.	<input type="checkbox"/> Off-Campus Sites
<input type="checkbox"/> Level I classroom Permanent screen & overhead projector	<input type="checkbox"/> Testing Center
<input type="checkbox"/> Level II classroom Level I equipment plus TV/VCR	<input type="checkbox"/> Computer workstations/lab
<input type="checkbox"/> Level III classroom Level II equipment plus data projector, computer, faculty workstation	<input type="checkbox"/> ITV
	<input type="checkbox"/> TV/VCR
	<input type="checkbox"/> Data projector/computer
	<input checked="" type="checkbox"/> Other <u>Taught at UA Local schools</u>

Assessment plan:

Learning outcomes to be assessed (list from Page 3)	Assessment tool	When assessment will take place (semester & year)	Course section(s)/other population	Number students to be assessed
<ul style="list-style-type: none"> • Explain how to protect potable water supplies with proper backflow devices • Design a hot water supply system using different types of water heating equipment • Describe the difference between wells and other sources of potable water • Demonstrate how to plan a hot and cold water supply system in high-rise buildings • Explain the difference between sanitary and storm, vacuum and gray water drainage systems • Describe the various treatment processes, from cesspools to septic tanks to full-scale sewage treatment plants • Describe how the venting system interrelates with the drainage system to promote effective operation • Demonstrate the ability to use their local plumbing code in drainage system design and installation 	<p>Contractors (employer) provide paper feedback forms for apprentice skill performance reviews.</p> <p>JATC contractor members provide specifications detailing technical updates.</p>	Winter 2011 and every three years thereafter	All	All

Scoring and analysis of assessment:

1. Indicate how the above assessment(s) will be scored and evaluated (e.g. departmentally developed rubric, external evaluation, other). Attach the rubric/scoring guide.

Individual locals use apprentice feedback forms filled out by the employing contractor.

2. Indicate the standard of success to be used for this assessment.

The standard of success is set by the local JATC.

3. Indicate who will score and analyze the data (data must be blind-scored).

The data is analyzed by the JATC as a committee.

4. Explain the process for using assessment data to improve the course.

Results are initially shared with the training coordinator for the local. The training coordinator then works with appropriate instructor staff to make needed changes.