

1. FOR ACTION: Review and Approval of a New Content Outline for the California Practice Standards and Jurisprudence Examination for Pharmacists (CPJE)

**Attachment C**

Pursuant to Business and Professions Code section 139, the board is required to complete an occupational analysis periodically which serves as the basis for the CPJE examination.

To complete this analysis, the committee recently developed a job analysis survey with the board's contracted psychometric firm. The survey was offered to specific, randomly selected California pharmacists (via postcard and a link to the board's Web site) and to California pharmacists generally in December 2009. There were 692 pharmacists who provided responses.

According to the board's contracted psychometric firm, these results are sufficient for a statistically reliable sample.

The information learned from this survey resulted in the need to slightly change the content outline of the CPJE to ensure it remains valid for California. The content outline identifies specific subject areas for the CPJE that will be generated into any examination, and serves as a study guide for students.

Since the beginning of the year, under the leadership of the board's psychometric consultant, the Competency Committee has worked on revising its content outline. That work has now been completed. The board needs to review and ultimately approve the new content outline. The new content outline will be used to construct examinations administered after April 1, 2011. Board Member Kajjoka and Supervising Inspector Dang participated in this process.

The current and proposed content outlines are provided in **Attachment C**.

California law in section 4200.2 of the Business and Professions Code directs that:

**4200.2.** When developing the California Practice Standards and Jurisprudence Examination for Pharmacists, the board shall include all of the following:

- (a) Examination items to demonstrate the candidate's proficiency in patient communication skills.
- (b) Aspects of contemporary standards of practice for pharmacists in California, including, but not limited to, the provision of pharmacist care and the application of clinical knowledge to typical pharmacy practice situations that are not evaluated by the North American Pharmacy Licensure Examination [NAPLEX].

There are three major sections for the examination, there are slight modifications proposed in weighting as follows:

Current:

I. Provide Medication to Patients	25 questions
II. Monitor and Manage Patient Outcomes	25 questions
III. Manage Pharmacy Operations	25 questions

Proposed:

I. Patient Medications	25 questions
II. Patient Outcomes	30 questions
III. Pharmacy Operations	20 questions

More specifically, the items identified for deletion from the current content outline are (indicated on the 2006 Content Outline in the attachment):

- 1A1. Interpret prescription/medication order.
- 2B2: Prepare IV admixtures.
- 2A3. Determine the need for a referral.
- 2A4. Communicate the therapeutic plan to the patient/patient's representative, the prescriber and other health care professionals.
- 3A4. Store pharmaceuticals, durable medical equipment, devices and supplies under proper storage conditions

The items proposed for addition to the content outline are (indicated on the Proposed Content Outline in the attachment)

- 1A7. Assess prescription/medication order for insurance coverage.
- 1B2. Select specific product(s) to be dispensed for a prescription/mediation order.
- 1B8. Use automated dispensing equipment (e.g., Pyxis, Omnicell, Accu-Dose, ScriptPro)
- 1B9. Prepare finished dosage forms for dispensing (e.g., measure, count, reconstitute, compound, repack, unit dose).
- 2A3. Assess changes in health status (e.g., onset of new disease states, changes in clinical condition).
- 2A7. Resolve problems that arise with patient's therapy (e.g., ADRs, drug interactions).
- 2B10. Respond to consumer inquiries (e.g., internet searches, media information, FDA patient safety alerts, radio/television commercials)
- 2B11. Provide supplemental information as indicated (e.g., medication guides, computer-generated information, videos).

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# Current and Proposed Content Outlines for the CPJE

For CPJE Exams Taken On or After April 1, 2006



## California State Board of Pharmacy Detailed Content Outline

### 1. Provide Medication to Patients 25 Items

#### A. Organize and Evaluate Information

- delete* → ① Interpret prescription/medication order
2. Obtain information from the patient/patient's representative for patient profile (diagnosis or desired therapeutic outcome, allergies, adverse reactions, medical history, etc.)
  3. Obtain information from prescriber and/or health care professionals for patient profile (diagnosis or desired therapeutic outcome, allergies, adverse reactions, medical history, etc.)
  4. Assess prescription/medication order for completeness, correctness, authenticity, and legality
  5. Assess prescription/medication order for appropriateness (e.g., drug selection, dosage, drug interactions, dosage form, delivery system)
  6. Evaluate the medical record/patient profile for any or all of the following: disease states, clinical condition, medication use, allergies, adverse reactions, disabilities, medical/surgical therapies, laboratory findings, physical assessments and/or diagnostic tests
  7. Evaluate the pharmaceutical information needs of the patient/patient's representative

#### B. Dispense Medications

- delete* → ② Prepare IV admixtures
3. Document preparation of medication in various dosage forms (e.g., compounded, unit dose)
  4. Document preparation of controlled substances for dispensing
  5. Verify label(s) for prescription container(s)
  6. Select auxiliary label(s) for container(s)
  7. Perform the final check of the medication prior to dispensing

### 2. Monitor and Manage Patient Outcomes 25 Items

#### A. Determine a Course of Action and Manage Patient Outcomes

1. Determine desired therapeutic outcomes
2. Develop a therapeutic regimen for prescription medications (e.g., recommend alteration of prescribed drug regimen; select drug if necessary)

*delete* → ③ Determine the need for a referral

*delete* → ④ Communicate the therapeutic plan to the patient/patient's representative, the prescriber and other health care professionals

5. Recommend/order necessary monitoring and screening procedures (e.g., blood pressure, glucose levels, drug levels)
6. Communicate results of monitoring to patient/patient's representative, prescriber and/or other health care professionals
7. Manage drug therapy according to protocols

#### B. Educate Patients and Health Care Professionals

1. Assess the patient's understanding of the disease and treatment
2. Counsel patient/patient's representative regarding prescription medication

- therapy and devices
- 3. Counsel patient/patient's representative regarding nonprescription medication (OTC)
- 4. Counsel patient/patient's representative regarding herbal/complementary therapies
- 5. Counsel patient/patient's representative regarding non-drug therapy
- 6. Counsel patient/patient's representative regarding self-monitoring of therapy (e.g., devices, symptoms)
- 7. Verify the patient's/patient representative's understanding of the information presented
- 8. Educate health care professionals (e.g., physicians, nurses, medical residents/fellows, other health care providers/students, precepting intern pharmacists)

**3. Manage Operations** **25 Items**

**A. Procure Pharmaceuticals, Devices and Supplies and Control Inventory**

- 1. Place orders for pharmaceuticals, durable medical equipment, devices and supplies, including expediting of emergency orders
- 2. Maintain a record-keeping system of items purchased/received/returned in compliance with legal requirements
- 3. Maintain a record of controlled substances ordered, received, stored and removed from inventory
- Delete* → ④ 4. Store pharmaceuticals, durable medical equipment, devices and supplies under proper storage conditions
- 5. Dispose of expired or recalled pharmaceuticals, durable medical equipment, devices, supplies and document actions taken
- 6. Communicate changes in product availability (e.g., formulary changes, recalls, shortages) to pharmacy staff, patient/patient's representative, physicians and other health care professionals
- 7. Maintain policies and procedures to prevent theft and/or drug diversion

**B. Perform Quality Assurance/Improvement**

- 1. Assess pharmacist and/or pharmacy technician competence
- 2. Ensure the accuracy of medication administration
- 3. Implement a system for medication error prevention, assessment, and reporting (e.g., root cause analysis, National Patient Safety Goals)
- 4. Implement a system by which adverse drug reactions are documented, analyzed, evaluated and reported

**C. Manage Operations, Human Resources and Information Systems**

- 1. Monitor the practice site and/or service area for compliance with federal, state and local laws, regulations and professional standards
- 2. Supervise the work of pharmacy staff
- 3. Ensure the availability, control, and confidentiality of patient and prescription information (e.g., patient profiles, medication administration records)

**D. Manage Medication Use System**

- 1. Maintain a formulary system
- 2. Apply therapeutic interchange
- 3. Conduct medication use evaluations

**TOTAL 90 questions  
including 15 unscored pretest items**

## Proposed (Effective 2011)



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PROPOSED

### Content Outline - 75 Item Examination

\*Underlining represents a task new to the content outline.

#### I. Patient Medications (25 Items)

##### A. Organize and Evaluate Information

1. Obtain information from the patient/patient's representative for patient profile (diagnosis or desired therapeutic outcome, allergies, adverse reactions, medical history, etc.)
2. Obtain information from prescriber and/or health care professionals for patient profile (diagnosis or desired therapeutic outcome, allergies, adverse reactions, medical history, etc.)
3. Assess prescription/medication order for completeness, correctness, authenticity, and legality
4. Assess prescription/medication order for appropriateness (e.g., drug selection, dosage, drug interactions, dosage form, delivery system)
5. Evaluate the medical record/patient profile for any or all of the following: disease states, clinical condition, medication use, allergies, adverse reactions, disabilities, medical/surgical therapies, laboratory findings, physical assessments and/or diagnostic tests
6. Evaluate the pharmaceutical information needs of the patient/patient's representative
7. Assess prescription/medication order for insurance coverage

##### B. Dispense Medications

1. Enter prescription information into patient profile
2. Select specific product(s) to be dispensed for a prescription/medication order
3. Document preparation of medication in various dosage forms (e.g., compounded, unit dose)
4. Document preparation of controlled substances for dispensing
5. Verify label(s) for prescription containers
6. Select auxiliary label(s) for container(s)
7. Perform the final check of the medication prior to dispensing
8. Use automated dispensing equipment (e.g., Pyxis, Omnicell, Accu-Dose, ScriptPro)



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## Content Outline - 75 Item Examination

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9. Prepare finished dosage forms for dispensing (e.g., measure, count, reconstitute, compound, repackage, unit dose)

### II. Patient Outcomes (30 Items)

#### A. Determine a Course of Action

1. Determine desired therapeutic outcomes
2. Develop a therapeutic regimen for prescription medications (e.g., recommend alteration of prescribed drug regimen; select drug if necessary)
3. Assess changes in health status (e.g., onset of new disease states, changes in clinical condition)
4. Recommend/order necessary monitoring and screening procedures (e.g., blood pressure, glucose levels, drug levels)
5. Document monitoring and therapeutic management activities
6. Manage drug therapy according to protocols
7. Resolve problems that arise with patient's therapy (e.g., ADRs, drug interactions)

#### B. Educate Patients and Health Care Professionals

1. Assess the patient's understanding of the disease and treatment
2. Counsel patient/patient's representative regarding prescription medication therapy and devices
3. Counsel patient/patient's representative regarding nonprescription medication (OTC)
4. Counsel patient/patient's representative regarding herbal/complementary therapies
5. Counsel patient/patient's representative regarding non-drug therapy
6. Counsel patient/patient's representative regarding self-monitoring of therapy (e.g., devices, symptoms)
7. Verify the patient's/patient representative's understanding of the information presented



### Content Outline - 75 Item Examination

\*Underlining represents a task new to the content outline.

8. Educate health care professionals (e.g., physicians, nurses, medical residents/fellows, other health care providers/students, precepting intern pharmacists)
9. Communicate results of monitoring to patient/patient's representative, prescriber and/or other health care professionals
10. Respond to consumer inquiries (e.g. internet searches, media information, FDA patient safety alerts, radio/television commercials)
11. Provide supplemental information, as indicated (e.g., medication guides, computer generated information, videos)

#### III. Pharmacy Operations (20 Items)

##### A. Procure Pharmaceuticals, Devices and Supplies, and Control Inventory

1. Place orders for pharmaceuticals, durable medical equipment, devices and supplies, including expediting of emergency orders
2. Maintain a record-keeping system of items purchased/received/returned in compliance with legal requirements (e.g., dangerous drugs, devices, supplies)
3. Maintain a record of controlled substances ordered, received, stored and removed from inventory
4. Dispose of expired or recalled pharmaceuticals, durable medical equipment, devices, supplies and document actions taken
5. Communicate changes in product availability (e.g., formulary changes, recalls, shortages) to pharmacy staff, patient/patient's representative, physicians and other health care professionals
6. Maintain policies and procedures to prevent theft and/or drug diversion

##### B. Perform Quality Assurance/Improvement

1. Assess pharmacist and/or pharmacy technician competence
2. Ensure the accuracy of medication administration
3. Participate in a system for medication error prevention, assessment, and reporting (e.g., root cause analysis, National Patient Safety Goals, medication error reduction program)