

# Fast Trak training and education

COL1

## Large-scale 컬럼 패키징 과정

기간: 3일

### 코스 소개

Fast Trak COL1 코스에서는 컬럼 패키징에 대한 이론 교육 및 Large-scale 컬럼 패키징 실습을 중점적으로 다룹니다. 다양한 타입의 Large-scale 컬럼을 ÄKTA Avant, Pilot 그리고 Process 장비를 사용하여 패키징하며, 수강생이 직접 실습에 참여하여 수강생 개인의 컬럼 패키징 역량을 강화합니다. COL1 코스를 통해 컬럼 패키징을 위한 준비 단계부터 패키징 공정 최적화, 평가 방법 확립 그리고 유지보수까지 컬럼 패키징에 대해 궁금했던 모든 것을 알아보세요.

- 컬럼 패키징 기본 이론 및 패키징타입 별 심화 교육
- 다양한 타입의 컬럼 패키징 실습(사전 준비, 컬럼 패키징 및 평가)
- AxiChrom 50, BPG 200, Chromaflow 400, AxiChrom 400 컬럼 패키징
- 컬럼 패키징 평가 및 Trouble shooting
- 컬럼, 시스템 및 레진의 유지보수

### 코스 일정

- 날짜: 2022년 5월 25일 - 5월 27일
- 장소: Cytiva APAC Fast Trak 센터
- 주소: 인천광역시 연수구 송도미래로 9 BRC 2동 2층
- 식사: 점심식사 제공

### 수강 대상

R&D 연구원, 프로세스 엔지니어, 제조 기술자

### 등록 방법

APAC Fast Trak 웹사이트([bit.ly/fasttrak-kor](https://bit.ly/fasttrak-kor))를 통해 직접 등록 또는 담당 Cytiva 영업사원에게 문의 주시기 바랍니다.

### 코스 금액 (2022년 기준)

Fast Trak Center	List Price	Product Code
Korea, Songdo	2,850,000 (KRW)	29244580

### 강의 내용

- Protein purification strategies
- Column packing requirements and techniques
- Column/resin considerations
- Column evaluation
- Column and resin cleaning and maintenance
- Troubleshooting
- Sanitization of resin and equipment

# Fast Trak training and education

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## Large-scale column packing

*Duration: 3 days*

### Course description

This hands-on course focuses on optimizing large-scale column packing and handling methods as well as testing and maintenance of chromatography resins in large-scale columns. We will address factors influencing separation performance and the relationship to reproducibility, stability, and economy in an industrial manufacturing setting.

You will pack and test large-scale columns, with different design features and dimensions, using several types of chromatography resins.

- Hands-on practice for preparing and maintaining large-scale chromatography columns
- Column packing-lectures and exercises
- Column testing and troubleshooting
- Guidelines for writing standard operating procedures (SOPs)
- Column qualification and resin lifetime

### Who should attend?

- Production personnel responsible for column packing or column performance issues
- Process development scientists, engineers, and operators working with chromatographic columns at pilot scale
- System engineers interested in the design and handling aspects of column-based production operations

### After the course, you will be able to:

- Understand the critical issues in large-scale column packing based on your own practical experience
- Pack and test large columns more rapidly and efficiently
- Identify major issues and troubleshoot current concerns to avoid problems in the future

### Topics covered

- Protein purification strategies
- Column packing requirements and techniques
- Column/resin considerations
- Column evaluation
- Column and resin cleaning and maintenance
- Troubleshooting
- Sanitization of resin and equipment

## General course information

Fast Trak™ Education is one means by which Cytiva provides application training in the various aspects of bioprocessing.

The courses are designed to provide a learning experience for process development and manufacturing staff.

There are hands-on training courses on column packing, basic chromatography, optimization and scale-up for both pilot and production scales. Courses on validation issues and chromatography theory are also given. The courses are run at our regional Fast Trak centers or customized at your premises.

### Cancellation policy

In case you need to cancel your registration, the following charges will apply:

- 30 to 21 days prior to course: 50% of course fee
- 20 to 8 days prior to course: 80% of course fee
- 7 days or less prior to course: 100% of course fee

If you are unable to attend after registered, you may send a colleague in your place or attend another course.

Cytiva reserves the right to modify course location, course material, substitute speakers, or to cancel the course. If the course is cancelled, registrants will be notified as soon as possible and will receive a full refund of paid fees. Cytiva will not be responsible for airfare penalties or other costs incurred due to a course cancellation.

### Course certificate

Upon completion of the course, each participant receives a course certificate in which course name and course date is stated.

### Course evaluation

At the end of each course, you will be asked to fill in a course evaluation form. We value your opinion of the course, the speakers, the material, and presentations and use this feedback to continuously improve the courses and their contents.

## **Travel and hotel costs**

Travel and hotel costs are not included in the course price.

## **Language**

Standard courses are held in English at Fast Trak Centers in USA, Sweden, Turkey, India, Singapore and Korea, unless otherwise specified. In China, most courses are in Mandarin with occasional courses in English. The courses in Germany are held in German and courses in Japan are held in Japanese. Customized courses can be presented in other languages. Please contact the Fast Trak center for more information.

## **Lunches**

All lunches during course days are included in the course prices.

## **Material in binders**

Each course participant will receive the lectures and other relevant material in a binder.

## **Requirements for safety level S1 (L1) laboratories**

Every course participant who enters our laboratories for the practical sessions must comply with certain safety requirements. Please notice that open-toe shoes are not allowed in the lab. Obligatory protective clothing and safety devices will be provided.

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