

Course syllabus for

## P68: Systems Engineering Introduction and Certification (Online course)

Syllabus adopted 2020-07-02 by Professor Bengt-Göran Rosén, Produktion2030 Head of Education



Credits 3 Hp (8 meetings of 2,5 hours + 3,5 hours of preparation + time

for examination 32 hours total 80 hours)

Grading scale Pass/Fail

Education cycle Third-cycle

Examiner Professor, Dag Bergsjö, Chalmers University of Technology

Eligibility A Master's degree in engineering or equivalent

Aim The course aims to give an introduction into the area of Systems

Engineering according to INCOSE (International Council of

Systems Engineer's).

Intended learning outcomes After completion of the course the course participant should be

able to participate at an official INCOSE certification event and be

approved at such test.

Course content The course is centred around the INCOSE Systems Engineering

Handbook and is run as a "study circle". There will be 8 online meetings. One every week for 8 weeks, including each chapter of





















the SE handbook as well as guest lectures giving insights into the

SE process and practices.

Course organisation 8 online meetings for 8 weeks. At the end of the course a

certification event will be scheduled in collaboration with INCOSE

certification body.

Examination Active participation at 6 of the 8 meetings.

Presenting one of the topics at one meeting

Approved at all online Quizzes.

Providing questions as preparation for each seminar.

Passing or taking the certification test is not needed to pass the

course.

Literature INCOSE Systems Engineering Handbook, Fourth Edition, Wiley

INCOSE-TP-2003-002-04 2015 (Digital PDF format).

## Study plan and reference to INCOSE handbook:

Date Fridays at 13:00-15:30	Section in SE Handbook	Content
2022-09-09	2 - 3	Overview & Life cycle,  Pre-course quiz
2022-09-16	4 - 4.4	Technical processes part 1
2022-09-23	4.5 - 4.14	Technical processes part 2
2022-09-30	5	Technical Management processes
2022-10-7	6 - 7	Agreement processes, Org Proj-Enabling processes
2022-10-14	8	Tailoring Mid-course quiz
2022-10-21	9	Cross cutting SE methods
2022-10-28	10	Specialty Engineering  End-course quiz
TBD		Certification test in Gothenburg (or other location arranged by INCOSE)