

# Australian Coal Preparation Society – NSW Branch

## 3 Day Intensive General Coal Preparation Course

Date	Time	Topic *
Tuesday	0800 – 0830	<b>Registration</b> <b>Course Overview and Introduction</b>
	0830 – 1000	<b>Module 1</b> <b>Coal in the ground (Ch 1)</b> Geology, rank and type <b>Mining and bulk handling (Ch 2)</b> <b>Safe storage of coal (Ch 3)</b> <b>Review questionnaire</b>
<b>BREAK</b>	1000 – 1015	
	1015 – 1215	<b>Module 2</b> <b>Sampling (Ch 4)</b> Sampling principles, precision and bias Sample preparation <b>Coal analysis and testing (Ch 5)</b> Proximate and ultimate analysis Chemical properties <b>Review questionnaire</b>
<b>LUNCH</b>	1215 – 1245	
	1245 – 1445	<b>Module 3</b> <b>Washability and liberation (Ch 6)</b> Float and sink testing, washability
<b>BREAK</b>	1445 - 1500	
	1500 - 1700	<b>Module 3</b> <b>Partition (Ch 7)</b> Prediction of results <b>Review questionnaire</b>
	1700 -1800	<b>Module 4</b> <b>Crushing</b> Types of crusher, applications
<b>DINNER</b>	1830	

\* Topics in bold are also the titles of corresponding Chapters in “The Principles of Coal Preparation” textbook for the course

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<b>Wednesday</b>	0800 – 0900	<b>Module 4 Screening (Ch 8)</b> Types of screen, applications
	0900 - 1030	<b>Module 5 Gravity Separation of coarse coal – jigs (Ch 9)</b> Design and operation Baum, under air <b>Dense medium separation – baths (Ch10)</b> Design and operation
<b>BREAK</b>	1030 -1045	
	1045 -1215	<b>Module 6 Hydrocyclones (Ch 11)</b> Classifying, thickening Water washing <b>Dense medium separation – cyclones (Ch12)</b> Design and operation Performance Magnetite circuits Australian practices
<b>LUNCH</b>	1215 -1245	
	1245 - 1400	<b>Module 7 Gravity separation of fine coal (Ch 13)</b> Spirals, Teetered bed separators <b>Review questionnaire</b>
	1400 - 1500	<b>Module 7 Froth flotation (Ch 14)</b> Principles Machine design and operation
<b>BREAK</b>	1500 - 1515	
	1515 -1815	<b>Module 8 Dewatering of product coal (Ch 15)</b> Centrifuges, filters <b>Dewatering of rejects (Ch 16)</b> Water clarification Thickeners, filters <b>Review Questionnaire</b>
<b>DINNER</b>	1830	

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Thursday	0800 –	<b>Plant Visit</b>
	– 1215	<b>Lab Visit</b>
<b>LUNCH</b>	1215 – 1245	
	1245 – 1445	<b>Module 9</b> <b>In-plant handling and waste disposal (Ch 18)</b> Conventional, dry and co-disposal <b>Instrumentation and controls (Ch 19)</b> Basic instrumentation
<b>BREAK</b>	1445 – 1500	
	1500 – 1630	<b>Module 10</b> <b>Process selection and flowsheet design (Ch 22)</b>  <b>Review Questionnaire</b>
	1630 - 1700	<b>Presentation of Certificates-Review-Closing</b>

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